



«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТІҢ
ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

НУ «НЕЗАВИСИМОЕ АГЕНТСТВО
АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR
ACCREDITATION AND RATING

REPORT

on the results of the work of the external expert commission for
evaluation for compliance with the requirements of standards for
specialized accreditation of educational programs

6B11230 Life safety and environmental protection
6B05213 Ecology

JSC «K. KULAZHANOV KAZAKH UNIVERSITY OF
TECHNOLOGY AND BUSINESS»

in the period from March 12 to March 14, 2025

INDEPENDENT AGENCY FOR ACCREDITATION AND RATING
External Expert Commission

*Addressed to
Accreditation
to the IAAR Council*



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BUSINESS»**

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2025 year

CONTENT

(I) LIST OF SYMBOLS AND ABBREVIATIONS	3
(II) INTRODUCTION	4
(III) REPRESENTATION OF THE EDUCATIONAL ORGANIZATION	6
(IV) DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE.....	7
(V) DESCRIPTION OF THE VEC VISIT	11
(VI) COMPLIANCE WITH SPECIALISED ACCREDITATION STANDARDS	13
6.1. Standard "Management of the educational program"	13
6.2. Standard "Information Management and Reporting"	17
6.3. Standard "Development and approval of the educational program"	19
6.4. Standard "Continuous monitoring and periodic evaluation of educational programs"	23
6.5. Standard "Student-centered learning, teaching and assessment of academic performance"	25
6.6. Standard "Students"	28
6.7. Standard "Teaching staff"	32
6.8. Standard "Educational resources and student support systems"	36
6.9. Standard "Informing the Public"	40
(VII) OVERVIEW OF STRENGTHS/BEST PRACTICES FOR EACH STANDARD	43
(VIII) REVIEW OF QUALITY IMPROVEMENT RECOMMENDATIONS FOR EACH STANDARD	44
(VIII) REVIEW OF RECOMMENDATIONS FOR THE DEVELOPMENT OF EDUCATIONAL ORGANIZATION	46
(IX) RECOMMENDATION TO THE ACCREDITATION COUNCIL.....	47
Appendix 1. Evaluation table "Conclusion of the external expert commission"	48
Appendix 2. PROGRAM OF THE VISIT TO THE EDUCATIONAL ORGANIZATION	55
Appendix 3. RESULTS OF THE TEACHER STAFF SURVEY	62
Appendix 4. RESULTS OF THE STUDENT SURVEY	67

(I) LIST OF SYMBOLS AND ABBREVIATIONS

AIS - "Platonus" - automation information system "Platonus"

AMP – administrative and management personnel

BD - Basic Disciplines

SCSHE – state compulsory standard of higher and (or) postgraduate education

UNT – Unified National Testing

ICT – information communication technologies

IEP – individual educational plan

JSC " K. Kulazhanov KazUTB" - Joint-Stock Company " K. Kulazhanov Kazakh University of Technology and Business"

CED – catalog of elective disciplines

CYA – Committee on Youth Affairs

ME of RK - Ministry of Education and Science of the Republic of Kazakhstan

SRW – scientific research work

SRWS – scientific research work of students

GED – general education disciplines

EP – educational program

MD – major disciplines

PC - production complex

PTS – professorial and teaching staff

BC – border control

WC – working curriculum

IWS – independent work of the student

EMC – educational and methodological council

IAAR – Independent Agency for Accreditation and Rating

Standards – Program Accreditation Standards

LSEP - Life Safety and Environmental Protection

Department of CCT&E - Department of Chemistry, Chemical Technology and Ecology



(II) INTRODUCTION

In accordance with order No. 22-25-OD dated 19.02.2025 From March 12 to March 14, 2025, an external expert commission of the Independent Agency for Accreditation and Rating assessed the compliance of educational programs 6B11230 Life Safety and Environmental Protection, 6B05213 Ecology of JSC "Kazakh University of Technology and Business named after K. Kulazhanov" with the specialized accreditation standards of the IAAR (dated June 16, 2020 No. 57-20-OD, as amended and supplemented by order No. 189-23-OD dated December 4, 2023, sixth edition).

The report of the external expert commission (EEC) contains an assessment of the submitted educational programs according to the IAAR criteria, the EEC recommendations for further improvement of educational programs and the parameters of the profile of educational programs.

Composition of the VEC:

1. ***Chairman of the IAAR Commission*** – Tamyarov Andrey Valerievich, Candidate of Technical Sciences, Associate Professor, Head of the Department of Licensing, Accreditation and Quality Control of Education, Associate Professor of the Department of Measuring and Computing Complexes of the Federal State Budgetary Educational Institution of Higher Education “Ulyanovsk State Technical University” (Russian Federation) *Offline participation*
2. ***IAAR Expert***- Babajanov Davron Dadojanovich, Vice-Rector for International Relations, Doctor of Economics, Professor, Tajik State University of Law, Business and Politics (Republic of Tajikistan) *Op-line participation*
3. ***IAAR Expert***- Ivashov Arslan Amanbaevich, Ph.D., Associate Professor, School of Law and Public Administration, Narxoz University (Republic of Kazakhstan) *Off-line participation*
4. ***IAAR Expert***-Ryvkina Natalia Valentinovna, Master, Senior Lecturer, Department of Construction, L.N. Gumilyov Eurasian National University (Republic of Kazakhstan) *Off-line participation*
5. ***IAAR Expert***-Valishina Galiya Lutfullaevna, PhD, Associate Professor, Methodological Center Astana (Republic of Kazakhstan) *Off-line participation*
6. ***IAAR Expert***-Tattibaeva Damira Bakhtiyarovna, PhD, Head of the Department of "Technology and Technology of Food Production", International University of Engineering and Technology (Republic of Kazakhstan) *Off-line participation*
7. ***IAAR Expert***-Kalganbaev Nurlan Adilovich, Candidate of Economic Sciences, Professor of the Department of International Tourism Management at KazUMOiWL named after. Abylaikhan (Republic of Kazakhstan) *Off-line participation*
8. ***IAAR Expert***-Aktymbaeva Aliya Sagyndykovna, Candidate of Geographical Sciences, Associate Professor, Department of Recreational Geography and Tourism, Al-Farabi Kazakh National University (Republic of Kazakhstan) *Off-line participation*
9. ***IAAR Expert, Employer***– Bekenov Erlan Khamzenovich, Deputy Director of Orta Invest LLP, Master (Republic of Kazakhstan) *Off-line participation*
10. ***IAAR Expert, Employer***– Temirlan Khaleluly Madiyev, leading expert of the investment projects support department of the Chamber of Entrepreneurs of Almaty (Republic of Kazakhstan) *Op-line participation*
11. ***IAAR expert, student***-Tynymbaeva Aruzhan Muratkyzy, Member of the Alliance of Students of Kazakhstan, Eurasian National University named after L.N. Gumilyov (Republic of Kazakhstan) *Off-line participation*
12. ***IAAR expert, student***- Sailau Adilet, 4th year student of the program "Information Security Systems" of the Kazakh National University named after Al-Farabi, Member of the Alliance of Students of Kazakhstan (Republic of Kazakhstan) *p-line participation*
13. ***IAAR expert, student***- Akkainanova Nazira Albertkyzy, 3rd year student of the EP "State and Local Government", Member of the Alliance of Students of Kazakhstan, University "Turan-Astana" (Republic of Kazakhstan) *Off-line participation*

14. **IAAR expert, student-** Sygambekova Diana Ardakovna, student of the EP "Standardization and Certification (by industry)", Member of the Alliance of Students of Kazakhstan, Karaganda Technical University named after Abylkas Saginov (Republic of Kazakhstan) Op-line participation

15. **IAAR expert, student-** Turdieva Kamilla Takhirovna, student of the EP "Tourism", University "Turan", Member of the Alliance of Students of Kazakhstan (Republic of Kazakhstan) Off-line participation

16. **IAAR Coordinator** - Saidulaeva Malika Akh'yadovna, Project Manager of the Independent Agency for Accreditation and Rating (Republic of Kazakhstan) Off-line participation



(III) PRESENTATION OF THE EDUCATIONAL ORGANIZATION

The training of personnel in the accredited educational programs is carried out on the basis of license No. KZ43LAM0000589 dated 19.02.2025 for the implementation of educational activities in the field of higher and postgraduate education, issued by the Committee for Quality Assurance in Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan.

Joint-Stock Company "Kazakh University of Technology and Business" named after K. Kulazhanov was established on June 12, 2003 on the basis of the branch of Almaty University of Technology and Business in Astana. Since the 2003-2004 academic year, the organization has been operating as an independent university, called Akmola University of Technology and Business. On March 26, 2008, it was renamed into JSC "Kazakh University of Technology and Business named after K. Kulazhanov" (hereinafter JSC "KazUTB named after K. Kulazhanov"), which is the only specialized higher education institution in Astana and the Akmola region for training competitive personnel for the food, light, petrochemical industries and the hospitality industry.

The university structure includes 2 faculties: "Technology", "Economics and Service", which include 8 departments, as well as the college of JSC "KazUTB named after K. Kulazhanov" <https://kaztbu.edu.kz/>.

The educational process is supported by a teaching staff of 227 people, including: 11 doctors of science, professors; 66 candidates of science, associate professors; 33 PhD doctors, 108 masters, and 9 specialists. The degree-holder ratio at the university is 48.5%.

The student contingent of KarIU for the 2024-2025 academic year is 4874 people: of which: 1741 are studying at the Faculty of Economics on a contractual basis, 36 on a grant; 2276 are studying at the Faculty of Technology on a contractual basis, 821 on a grant.

The University has sufficient material, technical, information and library resources used to organize the process of training and education of students: 3 academic buildings with a total area of 24457.40 m², there are 4 computer classes, a public catering facility with an area of 360 m², a dormitory with an area of 3335 m², a canteen for 50 seats, there is a student dormitory - "Student House" for 680 people. On February 9, 2024, a military department was created at JSC "KazUTB named after K. Kulazhanov".

The total book collection of the library as of 01.01.2025 is more than 135 thousand books in printed format and 2934 units in the AIS "Platonus" in PDF format in the state, Russian and foreign languages. Over the past five years, the library collection has increased by 14685 copies (11% of the renewal of the total book collection).

Educational program 6B05213 "Ecology" is implemented at the Department of Chemistry, Chemical Technology and Ecology (License number No. KZ43LAM0000589 dated 02/19/2025, order of the Chairman of the Committee for Quality Assurance in Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan dated February 19, 2025 No. 193, B051 Environment).

Educational program 6B11230 "Life Safety and Environmental Protection" is implemented at the Department of Chemistry, Chemical Technology and Ecology (License number No. KZ43LAM0000589 dated 02/19/2025, order of the Chairman of the Committee for Quality Assurance in Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan dated February 19, 2025 No. 193, B094 Sanitary and Preventive Measures).

(IV) DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE

In accordance with the order No. 33-20-OD dated April 27, 2020 of the Independent Agency for Accreditation and Rating, from May 25 to May 27, 2020, an external expert commission assessed the compliance of educational programs 6B05213 - "Ecology", 6B11230 - "Life Safety and Environmental Protection" (LSEP) of the Kazakh University of Technology and Business (KazUTB) with the standards of specialized accreditation of IAAR (No. 10-17-OD dated February 24, 2017, fifth edition).

Composition of the previous EEC at JSC "Kazakh University of Technology and Business named after K.Kulazhanov" (2020):

1. Chairman of the commission - Akybaeva Gulvira Sovetbekovna, Ph.D., Astana IT University (Nur-Sultan);
2. Expert – Sultanova Zamzagul Khamitovna, PhD in Economics, Acting Associate Professor, West Kazakhstan Agrarian and Technical University named after Zhangir Khan (Uralsk);
3. Expert – Zharkenova Svetlana Bakhytovna, PhD in Law, Associate Professor, L.N. Gumilyov Eurasian National University (Nur-Sultan);
4. Expert – Aliya Kairatovna Aldungarova, PhD, Pavlodar State University named after S. Toraigyrova (Pavlodar);
5. Expert – Elena Anatolyevna Abenova, Ph.D., Associate Professor, Narxoz University (Almaty)
6. Expert – Shaikenova Kymbat Khamitovna, candidate of agricultural sciences, Kazakh Agrotechnical University named after S. Seifullin (Nur-Sultan);
7. Expert - Bulashev Berdibek Kabkenovich, PhD in Agricultural Sciences, Associate Professor, expert of the Department of Technical Regulation of the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atameken" (Nur-Sultan);
8. Expert – Kalymova Kulziya Akashevna, PhD, L.N. Gumilyov Eurasian National University (Nur-Sultan);
9. Expert – Pak Dmitry Yuryevich, PhD, Associate Professor, Karaganda State Technical University (Karaganda);
10. Employer – Makasheva Zhumagul Zhamansarovna, business coach of NPP "Atameken" (Nur-Sultan);
11. Student - Bazarbek Amre, member of the Alliance of Students of Kazakhstan, 4th year student of the program "Automation and Control", L.N. Gumilyov Eurasian National University (Nur-Sultan);
12. Observer from the Agency - Nurgul Alimovna Kydyrmina, Project Manager of IAAR/IAAR (Nur-Sultan).

Recommendations to the university within the framework of the previous accreditation procedure for educational programs 6B05213 - "Ecology", 6B11230 - "Life Safety and Environmental Protection" (2020):

Standard "Educational Program Management"

Recommendations of the VEC on EP6B05213 – "Ecology", 6B11230 – "Life safety and environmental protection":

1. Involve students, representatives of the public and the business community in the formation and monitoring of the implementation of development plans for the educational program, reflecting proposals and results of discussions in the minutes of departments, the Academic Council, etc.

2. The management of the university must document the risk management procedure, implement risk management at the level of structural divisions, processes and educational programs.

Standard "Information Management and Reporting"

Recommendations of the VEC on EP6B05213 – “Ecology”, 6B11230 – “Life safety and environmental protection”:

1. The supervising structural unit of the university, together with the management of the educational institution, shall systematically analyze the results of the survey, develop a plan of corrective actions in the context of the educational institution and ensure control over their implementation, and, taking into account external and internal environmental factors, carry out corrective and preventive actions aimed at the continuous improvement of the educational institution.

Standard "Development and approval of educational programs"

Recommendations of the VEC on EP6B05213 – “Ecology”, 6B11230 – “Life safety and environmental protection”:

1. The management of EP 6B05213 - "Ecology", 6B11230 - "Life Safety and Environmental Protection" shall carry out targeted work to organize the preparation of students for professional certification in the EP.

2. Conduct a more in-depth analysis of the content of educational programs for harmonization with similar educational programs of other universities, develop joint educational programs with partner universities and begin their implementation.

Standard "Continuous monitoring and periodic evaluation of educational programs"

Recommendations of the VEC on EP6B05213 – “Ecology”, 6B11230 – “Life safety and environmental protection”:

3. All changes to the MOP shall be published for interested parties in external information sources, including on the university website.

Standard "Student-centered learning, teaching and assessment of academic performance"

Recommendations of the VEC on EP 6B05213 - "Ecology", 6B11230 - "Life Safety and Environmental Protection":

1. After the end of the semester, monitor and analyze the effectiveness and impact of using various forms and methods of teaching in the educational process, and your own research in the field of teaching methods. Record the results of monitoring by developing a plan for corrective actions in case of negative indicators.

Standard "Students"

VEK recommendations on EP6V05213 – “Ecology”, 6V11230 – “Life safety and environmental protection”:

1. The management of EP 6B05213 - "Ecology", 6B11230 - "BZhIZOS" should include specific indicators in the department's work plans for publishing its own publications in 3 languages.

2. In accordance with the University Development Program for 2019-2023, the EP management should include indicative indicators in the educational program development plans, in the department work plans and implement the following items: “participation of students in the external and internal academic mobility program”, “participation of students in competitions for external grants for education”, “increasing the number of students studying in English”, with the involvement of foreign teaching staff, native speakers to achieve these goals, and update cooperation agreements with universities in foreign countries.

3. The University management should update the activities of the Alumni Association.

4. The leadership of the educational institution shall annually develop and implement a plan for attracting students to research work and participation in competitions for grant funding from the Ministry of Education and Science of the Republic of Kazakhstan, the World Bank, social projects, competitions of the Foundation of the First President of the Republic of Kazakhstan, Erasmus+, Tempus programs, etc.

5. The management of the EP, starting from the 2nd year of study, should facilitate the organization of professional internships and classes at enterprises, branches of departments - future potential employers.

Standard "Teaching staff"

Recommendations of the VEC on EP6B05213 – “Ecology”, 6B11230 – “Life safety and environmental protection”:

1. In accordance with the university development program for 2019-2023, the EP management should include indicative indicators in the educational program development plans, in the department work plans and implement the item: “participation of the teaching staff in the external academic mobility program”.

Standard "Educational Resources and Student Support Systems"

Recommendations of the VEC on EP6B05213 – “Ecology”, 6B11230 – “Life safety and environmental protection”:

1. Organize work on installing guiding markings and color graphic indicators and signs for visually impaired students and staff in all university buildings.

Standard "Informing the Public"

Recommendations of the VEC on EP6B05213 – “Ecology”, 6B11230 – “Life safety and environmental protection”:

-absent

Standards for individual specialties

Recommendations of the VEC on EP6B05213 – “Ecology”, 6B11230 – “Life safety and environmental protection”:

1. Increase the time allocated for industrial practice at enterprises and organizations, conducting practical and laboratory classes at department branches, starting from the 2nd year of study, conducting excursions, seminars and round tables with representatives from production, including current issues in the field of ecology and life safety in the Republic of Kazakhstan.

2. Resolve issues regarding acquisitionThe ERA software package, as well as licensed versions of the programs "Environmental mapping and GIS – ArcGIS», «AutoCAD».

On June 9, 2020, by the decision of the Accreditation Council of the IAAR, educational programs 6B05213 - "Ecology", 6B11230 - "Life Safety and Environmental Protection" implemented by JSC "Kazakh University of Technology and Business named after K. Kulazhanov" were accredited for 5 years.

To implement the recommendations, the university developed an action plan. The results of the planned activities are reflected in the interim reports of JSC "Kazakh University of Technology and Business named after K. Kulazhanov".

Post-accreditation monitoring of the activities of JSC "Kazakh University of Technology and Business named after K. Kulazhanov" was carried out within the framework of the action plan for the implementation of the recommendations of the EEC and was carried out in accordance with the requirements of the regulation on post-accreditation monitoring. Post-accreditation monitoring of the activities of JSC "Kazakh University of Technology and Business named after K. Kulazhanov" showed that, in general, the recommendations given by the EEC are being implemented, with the exception of some recommendations.

At the same time, the members of the EEC who carried out the re-accreditation from March 12 to 14, 2025, established that the following work was carried out in accordance with the recommendations of the previous EEC:

In terms of managing educational programs, universities ensured the participation of students, representatives of the public and employers in the process of forming and monitoring the implementation of educational program development plans. The formation of educational program development plans at the university is carried out on the basis of PD 20-21.179-2021 "Regulations on the procedure for developing an educational program development plan and monitoring its implementation" (approved by the President-Rector on 04.05.2021). Stakeholders' proposals are recorded in the minutes of meetings of departments and the Academic Council. A risk management procedure at the level of educational programs and departments is also documented and implemented.

Within the framework of the Information Management and Reporting standard, a systematic analysis of the results of the student survey has been implemented, followed by the development

and control of the implementation of corrective actions for each educational program. The process takes into account external and internal factors and is aimed at continuous improvement of the educational program. The university has developed a Risk Management Regulation (posted on the website, approved on February 29, 2024). The University's Strategic Development Plan contains a SWOT analysis for the implementation of the Development Strategy. An assessment of the development risks of the educational program was carried out in order to develop a mechanism for reducing them, the results of which were discussed at a meeting of the department (minutes No. 4 dated November 20, 2023).

Within the framework of the standard "Student-centered learning, teaching and assessment of academic performance", a procedure for monitoring the effectiveness of teaching methods has been introduced, which is formalized in the form of protocols and plans for corrective actions. The university conducts a survey of various categories of participants in the educational process: "Quality of teaching - the opinion of the student", "Satisfaction of the teaching staff with the university", "The teacher through the eyes of students", "Satisfaction of employers with the quality of training of graduates", "Satisfaction of students with the support provided to them", "Involvement of teachers in research work", "Satisfaction of students with research work at the university".

According to the "Students" standard, department and educational program plans have been updated, indicators on academic mobility, participation in competitions for external grants, attracting foreign faculty and increasing the number of disciplines in English have been included. According to the "Teaching Staff" standard, participation of faculty in academic mobility programs has been ensured and department development plans have been updated taking into account these indicators.

As part of the implementation of the recommendations of the Standard "Standards for Individual Specialties", the number of hours for practical training of students at department branches and partner enterprises has been increased, and forms of interaction with employers (excursions, round tables) are actively used.

At the same time, during the inspection it was established that some of the recommendations are in the implementation stage or require additional measures. According to the standard "Development and approval of educational programs", the work on preparing students for professional certification has not been completed. There are also no joint educational programs with partner universities, despite the comparative analysis of the content of the EP with similar programs of other universities. Within the framework of the standard "Continuous monitoring and periodic assessment of educational programs", changes to the EP are published in external sources, including the official website of the university, but not in full. The Alumni Association is at the creation stage and does not yet carry out active activities to assist graduates. Also, work on the acquisition and implementation of modern licensed software products in the educational process, including the ERA PC (at the application stage), has not been completed.

(V) DESCRIPTION OF THE VEC VISIT

The work of the VEC was carried out on the basis of the approved Program of the visit of the expert commission for specialized accreditation of educational programs Kazakh University of Technology and Business named after K. Kulazhanov from March 12 to March 14, 2025.

In order to coordinate the work of the EEC, an online introductory meeting was held on 10.03.2025, during which powers were distributed among the members of the commission, the schedule of the visit was clarified, and agreement was reached on the selection of examination methods.

In order to obtain objective information on the quality of educational programs and the entire infrastructure of the university, to clarify the content of self-assessment reports, meetings were held with the rector, vice-rectors of the university in areas of activity, heads of structural divisions, heads of departments, teachers, students, graduates, employers. A total of 79 representatives took part in the meetings (Table 1).

Table 1 – Information about the staff and students who took part in the meetings with the NAAR EEC:

Category of participants	Quantity
Rector	1
Vice-Rector's building	4
Heads of structural divisions	15
Deans	2
Heads of Departments	6
Teachers	16
Students, master's students, doctoral students	24
Graduates	5
Employers	6
Total	79

During the visual inspection, the members of the EEC became familiar with the state of the material and technical base - rooms 315/3, 417/3, 415/3, 410/3, 406/3, 402/3.

At the meetings of the NAAR EEC with the university's target groups, the mechanisms for implementing the university's policy were clarified and individual data presented in the university's self-assessment report were specified.

The members of the EEC visited the practice base of the accredited programs: JSC "Scientific and Production Center for Environmental and Industrial Biotechnology".

The members of the VEC attended training sessions:

- laboratory lesson in the discipline "Hydroecology", topic "Hydrobiocenosis – hydrosphere biology". Hydrobiocenosisdaryn zhalpy sipattamas. Hydrobiocenosisdarydin aluandygy", 2nd year, group E-221 (educational program 6B05213 - "Ecology"), teacher - assistant professor Onerkhan G. (room 3/419);

- lecture on the subject "Organization and conduct of civil defense", topic "Civil defense measures", 2nd year, group BZhD-222 (educational program 6B11230 - "Life safety and environmental protection), teacher - master, senior lecturer Takirova A.Kh. (auditorium No. 3/315).

In accordance with the accreditation procedure, a survey was conducted among 65 teachers and 71 students, including junior and senior students.

In order to confirm the information provided in the Self-Assessment Report External experts requested and analyzed the university's working documentation. In addition, the experts studied the university's online positioning through the university's official website <https://www.kaztbu.edu.kz/ru>.

As part of the planned program, recommendations for improving the accredited educational programs of JSC "Kazakh University of Technology and Business named after K. Kulazhanov", developed by the EEC based on the results of the examination, were presented at a meeting with the management on 14.03.2025.



(VI) COMPLIANCE WITH SPECIALISED ACCREDITATION STANDARDS

6.1. Standard "Management of the educational program"

- ✓ The university must demonstrate the development of the goal and strategy for the development of the educational program based on the analysis of external and internal factors with the broad involvement of various stakeholders.
- ✓ Quality assurance policies should reflect the relationship between research, teaching and learning.
- ✓ The university demonstrates the development of a quality assurance culture.
- ✓ Commitment to quality assurance must apply to all activities carried out by contractors and partners (outsourcing), including in the implementation of joint/dual degree education and academic mobility.
- ✓ The management of the educational institution ensures transparency in the development of the educational institution's development plan based on an analysis of its functioning, the actual positioning of the university and the focus of its activities on meeting the needs of students, the state, employers and other interested parties.
- ✓ The management of the educational institution demonstrates the functioning of mechanisms for the formation and regular revision of the educational institution development plan and monitoring of its implementation, assessment of the achievement of educational goals, compliance with the needs of students, employers and society, and decision-making aimed at the continuous improvement of the educational institution.
- ✓ The leadership of the educational institution must involve representatives of stakeholder groups, including employers, students and teaching staff, in the formation of the educational institution development plan.
- ✓ The leadership of the educational institution must demonstrate the individuality and uniqueness of the educational institution's development plan, its consistency with national development priorities and the development strategy of the educational organization.
- ✓ The university must demonstrate a clear definition of those responsible for business processes within the EP, the distribution of job responsibilities of personnel, and the delineation of the functions of collegial bodies.
- ✓ The management of the OP ensures the coordination of the activities of all persons participating in the development and management of the OP and its continuous implementation, and also involves all interested persons in this process.
- ✓ The management of the OP must ensure the transparency of the management system, the functioning of the internal quality assurance system, including its design, management and monitoring, and the adoption of appropriate decisions.
- ✓ The management of the OP must implement risk management.
- ✓ The management of the educational program must ensure the participation of representatives of interested parties (employers, teaching staff, students) in the collegial bodies managing the educational program, as well as their representativeness in decision-making on issues of managing the educational program.
- ✓ The university must demonstrate innovation management within the framework of the EP, including the analysis and implementation of innovative proposals.
- ✓ The leadership of the educational institution must demonstrate its openness and accessibility to teaching staff, employers and other interested parties.
- ✓ The management of the OP confirms completion of training in educational management programs.
- ✓ The management of the EP should ensure that the progress made since the last external quality assurance procedure is taken into account when preparing for the next procedure.

Evidential part

Kazakh University of Technology and Business named after K. Kulazhanov implements a clearly structured and consistent policy in the field of quality assurance, which is integrated into the overall strategic management system.

Policy of JSC "KazUTB named after K. Kulazhanov", approved by the Board of Directors of JSC "KazUTB named after K. Kulazhanov" dated 19.04.2024, protocol No. 2 <https://www.kaztbu.edu.kz/storage/app/media/uploaded-files/.pdf> in the area of quality is focused on the implementation of the mission, strategic goals and objectives of the university <https://www.kaztbu.edu.kz/ru/missiya-kazutb>, and also to fully satisfy the needs of all categories of consumers, ensuring high performance results in all areas in accordance with current labor market requirements and international educational standards.

The university has implemented an effective system of strategic management of educational programs, which is based on a comprehensive analysis of the external and internal environment. The goals and development strategy of each EP are developed with the active involvement of a wide range of stakeholders, including government agencies, employers, professional associations, students, graduates and the academic community. Surveys, round tables, expert interviews and labor market monitoring data are used to determine the needs of stakeholders. The development program of KazUTB named after K. Kulazhanov JSC for 2024-2029 was approved by the Board of Directors of KazUTB named after K. Kulazhanov JSC on September 10, 2024, protocol No. 6-1 takes into account the state's requests for training personnel for priority industries, the interests of employers in obtaining competent specialists and the needs of students for high-quality and practice-oriented education.

The development strategy includes risk management mechanisms: potential threats have been identified (insufficient level of English language proficiency among students and faculty for the implementation of double-degree education; insufficient share of foreign students out of the

total number of students; aging of PhD staff, slow pace of adaptation of faculty and university staff to the introduction of advanced information technologies)<https://www.kaztbu.edu.kz/ru/strategiya-razvitiya> and action plans are provided in case of their implementation. Alternative scenarios for achieving strategic goals have also been developed, including adjusting educational programs, introducing new learning formats (online, hybrid learning) and intensifying international cooperation. The adequacy of resources for implementing the strategy is assessed at the planning stage through an audit of human, financial, information and material and technical resources.

The internal quality assurance system at the university functions as an integrated structure with clear work regulations. It includes the Education Quality Commission (EQC), regular internal and external audits, assessment of student satisfaction, monitoring of the implementation of the EP and corrective measures. The policy in the field of quality assurance of educational programs is determined by the Academic Policy of JSC "KazUTB named after K.Kulazhanov", approved by the decision of the Academic Council dated 02/29/2024, protocol No. 7. The quality assurance policy and documents on the QMS procedures are published both on the university's internal portals and on the university's official website.

The processes of planning and development of educational programs at the university are organized transparently. All decisions are recorded in the minutes of the Academic Council and working groups on educational programs. The development plan of the educational program is formed on the basis of an analysis of its current functioning, positions in the ratings and demand in the labor market in accordance with the Regulation on the procedure for developing a plan for the development of an educational program and monitoring its implementation, approved by the President - Rector of JSC "KazUTB named after K.Kulazhanov" S.Baibekov dated 02/29/2024 and is posted on the university website for each educational program on the pages of the departments:

6B05213 -Ecology

<https://www.kaztbu.edu.kz/storage/app/media/kafedry/kafedra%20hhyie/PlanRazvEcology.pdf>

6B11230 – “Life safety and environmental protection”

<https://www.kaztbu.edu.kz/storage/app/media/kafedry/kafedra%20hhyie/PlanRazvBzhd.pdf>

Monitoring of the implementation of the program development plan is carried out regularly and includes an assessment of the achievement of educational goals, student satisfaction and labor market demands. The management of accredited programs uses a formalized procedure for assessing effectiveness, including an analysis of employment data, an assessment of educational achievements and the results of a survey of employers. All corrective decisions and program revisions are made by collegial bodies (Educational and Methodological Council, Academic Council) and are documented in updated program development plans.

The OP management actively involves external and internal stakeholders, including students, employers and teachers, in planning and revising the programs. The criteria for selecting participants in the discussions are based on the principle of representativeness: representatives of leading companies, public organizations and student self-government bodies are involved. All interested parties have the right to vote and participate in the approval of key decisions on the EP, which is recorded in the minutes (Extract from the minutes of the meeting of the Academic Council of JSC KazUTB named after K. Kulazhanov dated March 28, 2024, minutes No. 8, "On approval of updates made to the EP for the 2024-2025 academic year"; Extract from the minutes of the meeting of the Academic Council of JSC KazUTB named after K. Kulazhanov dated February 27, 2025, minutes No. 7, "On consideration and recommendation for approval by the Board of Directors of changes made to the EP to update the EP passport in the EP Register"; Composition of the Academic Council of JSC KazUTB named after K. Kulazhanov for the 2024-2025 academic year, approved by the President of JSC KazUTB named after K. K. Kulazhanova" Kulazhanov E.T. from 02/05/2025)

The development plans of OP 6B05213 - Ecology; 6B11230 - "Life Safety and Environmental Protection" demonstrate individuality and uniqueness, as they reflect the specifics

of the region, the needs of the local market and the priorities of the state (for example, the presence of a digital component in them, which corresponds to the State Program "Digital Kazakhstan", as well as the process of transforming JSC "KazUTB named after K. Kulazhanov" into a Digital University). The development plans of the EP are aimed at achieving the strategic goals of the university - increasing the competitiveness of graduates and integration into the international educational space; they are consistent with the university strategy and quality assurance policy, which is confirmed by internal regulations and university development programs.

Management of processes within the EP is structured and clearly assigned to specific officials and departments. All business processes are documented in the Regulation on the procedure for developing educational programs, approved by the President-Rector of JSC "KazUTB named after K. Kulazhanov" S. Baibekov dated 02/29/2024, regulations and instructions. The organization of the development and quality assurance of the EP is supervised by the educational and methodological department (EMD). The functions are distributed between the dean's office, departments, the QOC and the Quality Assurance Council of the EP, which eliminates duplication of responsibilities. The EP management ensures effective coordination of all participants in the process of development, implementation and management of the program.

Risk management is carried out on the basis of the internal regulation on the risk management system - the Regulation on Risk Management, approved by the President-Rector of JSC "KazUTB named after K. Kulazhanov" S. Baybekov on 02/29/2024. The management of the OP, together with the strategic development department, annually analyzes and systematizes risks using SWOT analysis methods. All identified risks are recorded and taken into account in the Development Program of JSC "KazUTB named after K. Kulazhanov" to minimize them.

The program management actively involves representatives of stakeholders in the management of the OP. The governing bodies of the OP include faculty, employers, and students. (The composition of the Academic Council of JSC KazUTB named after K. Kulazhanov for the 2024-2025 academic year, approved by the President of JSC KazUTB named after K. Kulazhanov E.T. dated 05.02.2025). Decisions on strategic issues are made taking into account the opinions of all parties. Active participation is recorded in the minutes of meetings, for example, the participation of employers in the revision of educational programs (Minutes of the round table meeting dated 10.04.2023 of the Department of Chemistry, Chemical Technology and Ecology (CCTE) on the discussion of issues of the content of educational programs).

The management system of the educational program provides for innovation management. Improving the quality of education in educational programs 6B05213 - "Ecology", 6B11230 "Life Safety and Environmental Protection" is based on the synthesis of the triad "science-education-innovation". The research work of the Department of "HCTiE" has an innovative focus and is devoted to research in the field of ecology, waste processing, creation of new materials and raw materials, waste-free technologies, new materials, etc.

The EP management demonstrates openness and accessibility to all stakeholders. Feedback is provided via corporate mail, surveys and personal consultations. JSC KazUTB named after K. Kulazhanov supports and systematically implements the state anti-corruption policy in the field of education. Based on the Anti-Corruption Program 2015-2025 and the Anti-Corruption Strategy of the Republic of Kazakhstan for 2015-2025, the university has developed and approved the Anti-Corruption Standard, the Regulation on the Anti-Corruption Program, and the Regulation on Academic Integrity (<https://kaztbu.edu.kz/ru/akademicheskaya-chestnost-i-bezopasnost>). All employees and students of JSC "KazUTB named after K. Kulazhanov" have the opportunity to contact the ethics commissioner and the person responsible for combating corruption on issues of interest to them.

The EP has experience in undergoing external quality assurance procedures. Following the results of the last accreditation, the university received recommendations on involving students, representatives of the public and the business community in the formation and monitoring of the implementation of the EP development plans, reflecting proposals and results of discussions in the minutes of departments and the Academic Council; on documenting the risk management procedure. During the reporting period, these recommendations were implemented by updating

the composition of collegial bodies; a risk management procedure was developed and approved. Regular monitoring of the implementation of recommendations is carried out, and in preparation for the next external assessment, all achieved changes are documented and taken into account.

Analytical part

The content and meaning of the evaluation criteria of the Standard "Management of the Educational Program" indicate the presence of measures taken by KazUTB to improve quality in various types of activities. The University has demonstrated a general university concept of quality for each activity. The main business processes and those responsible for them are described, on the basis of which the design, management and monitoring of improvements, decision-making based on facts should be carried out.

The management of the university and the educational institution demonstrated transparency in developing the educational institution's development plan based on an analysis of its functioning, the actual positioning of the university and the focus of its activities on meeting the needs of the state, employers, stakeholders and students, as well as its revision based on changing external conditions with the involvement of external experts from among stakeholders.

The characteristics of the educational program allow us to note its uniqueness in the education market, and also show the innovative features of the accredited educational programs.

Risk management for the implementation of the OP is at an acceptable level, but it may be necessary to more actively use modern approaches to risk management.

The VEC Commission notes that the university management actively supports the advanced training of employees, including the development of competencies in the field of education management, but the advanced training programs for the head of the Department of Chemistry, Chemical Technology and Ecology require updating.

The survey of the faculty conducted during the visit of the IAAR VEC showed that the involvement of the faculty in the process of making management and strategic decisions is "very good" and "good" – 38.5% % and 56.9% % respectively. "Relatively poorly" is assessed the involvement of the faculty in the process of making management and strategic decisions by 4.6% of the faculty.

During a visual inspection of the university premises and analysis of documents, the members of the EEC noted the presence of an open system and accessibility of educational relations between participants.

At the same time, the presented documents do not allow us to draw a conclusion about the completion of advanced training by all heads of the university and educational institutions in the field of educational management.

Strengths/best practices for OP 6B05213 – "Ecology", 6B11230 "Life Safety and Environmental Protection":

Not identified.

Recommendations of the VEC for OP 6B05213 - "Ecology", 6B11230 "Life Safety and Environmental Protection":

1. By the end of 2025, in order to improve management efficiency, the management of the Ecology and Life Safety and Environmental Protection OPs will undergo training in the management in education program.

Conclusions of the VEK based on the criteria:

According to the standard "Educational Program Management": accredited educational programs OP 6B05213 – "Ecology", 6B11230 "Life Safety and Environmental Protection" have 16 satisfactory positions, 1 position requiring improvement.

6.2. Standard "Information Management and Reporting"

- ✓ *The university must ensure the functioning of a system for collecting, analyzing and managing information based on modern information and communication technologies and software.*
- ✓ *The OP's management demonstrates the systematic use of processed, adequate information to improve the internal quality assurance system.*
- ✓ *The EP management demonstrates the existence of a reporting system that reflects the activities of all structural divisions and departments within the EP, including an assessment of their performance.*
- ✓ *The university must determine the frequency, forms and methods of assessing the management of the educational institution, the activities of collegial bodies and structural divisions, and senior management.*
- ✓ *The university must demonstrate a mechanism for ensuring the protection of information, including the identification of persons responsible for the accuracy and timeliness of information analysis and the provision of data.*
- ✓ *The university demonstrates the involvement of students, employees and faculty in the processes of collecting and analyzing information, as well as making decisions based on it.*
- ✓ *The leadership of the educational institution must demonstrate the existence of mechanisms for communication with students, employees and other stakeholders, including conflict resolution.*
- ✓ *The university must ensure that the degree of satisfaction of the needs of the teaching staff, personnel and students within the framework of the EP is measured and demonstrate evidence of the elimination of the identified deficiencies.*
- ✓ *The university must evaluate the effectiveness and efficiency of activities in the context of the educational program.*
- ✓ *The information collected and analyzed by the university within the framework of the EP must take into account:*
 - ✓ *key performance indicators;*
 - ✓ *dynamics of the student contingent in terms of forms and types;*
 - ✓ *academic performance, student achievement and dropout;*
 - ✓ *satisfaction of students with the implementation of the educational program and the quality of education at the university;*
 - ✓ *availability of educational resources and support systems for learners;*
 - ✓ *employment and career growth of graduates.*
- ✓ *Students, staff and teaching staff must provide documented consent to the processing of personal data.*
- ✓ *The management of the OP should facilitate the provision of all necessary information in the relevant fields of science.*

Evidential part

The university effectively operates a comprehensive system of collecting, analyzing and managing information based on modern information and communication technologies and software products. All key information management processes are documented in the university's regulatory documents. Nine standards have been adopted and are in effect at JSC KazUTB named after K. Kulazhanov: Standard "Documentation Management", Standard "Internal Audits", Standard "Personnel Management", Standard STU "Requirements for the Construction, Presentation and Registration of Quality Management System Documentation", "Records Management", Standard "Analysis by Management", Standard "Guide to the Internal Quality Assurance System", "Corrective and Preventive Actions", Standard "Management of Nonconforming Products" (<https://kaztbu.edu.kz/ru/akkreditaciya-i-rejtingi>). Information management processes are documented in internal regulations, which define goals, objectives, procedures, as well as responsible departments and officials. The University has established a regulated frequency of collection and analysis of information, which is carried out both within the framework of the annual cycle of EP management and in the context of individual processes and events (educational process, scientific activity, satisfaction of students and employees, etc.).

Modern information systems such as Platonus (academic accounting), the electronic service center for students of JSC KazUTB named after K. Kulazhanov are used to collect and analyze information - <http://cooutb.kz/>. The results of the analysis are regularly reviewed at meetings of the Academic Council and posted on the university website. <https://www.kaztbu.edu.kz/ru/strategiya-razvitiya>. The university has an internal reporting system that covers all structural divisions and departments within the framework of the EP implementation. The reports record the effectiveness of their activities, which allows assessing both the implementation of plans and objectives, and the achieved qualitative and quantitative indicators. The data obtained are used in planning the development of the EP and adjusting management decisions (Report on the implementation of the Strategic Development Plan of KazUTB for 2023, approved by the Board of Directors of KazUTB named after K. Kulazhanov JSC on April 19, 2024, minutes No. 2; Report on the implementation of the Strategic Development Plan of KazUTB for 2023, approved by the Board of Directors of KazUTB JSC on March 29, 2023, minutes No. 13).

Particular attention is paid to the protection of information and ensuring the reliability of data. The university has established categories of information, applied rules for its classification and protection, and identified persons responsible for the relevance, completeness and timeliness of the data provided. The procedure for protecting information is regulated by local acts (Information Security Policy of JSC KazUTB, approved by the President - Rector of JSC KazUTB named after K. Kulazhanov S. Baibekov dated 02/29/2024).

An important element is the involvement of students, faculty and staff in the processes of collecting, analyzing information and making decisions. The University implements mechanisms for feedback and participation of various stakeholder groups in discussing results and planning improvements. Their participation is regulated and enshrined in the relevant provisions and regulations (Regulations on monitoring the quality of education, approved by the President - Rector of JSC "KazUTB named after K. Kulazhanov" S. Baibekov dated 02/29/2024; Plan for conducting a survey for the 2024-2025 academic year, approved by the President - Rector of JSC "KazUTB named after K. Kulazhanov" S. Baibekov dated 08/29/2024). The University regularly assesses the degree of satisfaction of students' needs (Report on the survey results (First-year students' questionnaire), approved by the President - Rector of JSC "KazUTB named after K. Kulazhanov" S. Baibekov dated 05.01.2024; Report on the survey results (Questionnaire on the quality of teaching - student's opinion), approved by the President - Rector of JSC "KazUTB named after K. Kulazhanov" S. Baibekov dated 05.01.2024). The tools and approaches used allow not only to record the level of satisfaction, but also to identify areas for improvement. The results of the data analysis are used to make management decisions aimed at improving the quality of educational activities.

The system for assessing the effectiveness and efficiency of the university's activities covers all levels: from the EP to general university structures (Regulations on the rating system for assessing the activities of the teaching staff, departments and faculties, approved by the President - Rector of JSC "KazUTB named after K. Kulazhanov" S. Baibekov dated 02/29/2024). Internal collegial bodies play a key role in these processes, providing a comprehensive and comprehensive approach to assessing the university's activities.

The university has also introduced processes for regular external evaluation of educational programs, which are aimed at confirming their compliance with national and international quality requirements, as well as obtaining objective and independent expertise from external stakeholders and the professional community. In the area of quality assurance of the educational program, the annual mandatory procedure is the participation of experts from among partner employers in the discussion of the EP (minutes of the round table meeting dated October 4, 2023). The university annually conducts surveys of employers in order to determine satisfaction with the quality of training of graduates. Representatives of 22 organizations and enterprises, key partners of KazUTB named after K. Kulazhanov, took part in the survey for the 2023-2024 academic year. The number of graduates of KazUTB named after K. Kulazhanov hired by organizations and enterprises of employers (survey participants) over the past 5 years has amounted to 126 people, over the past year - 35 people. According to the survey results, 90% of respondents intend to advertise graduates of KazUTB named after K. Kulazhanov to other employers. The main advantages of training specialists at KazUTB named after K. Kulazhanov, according to the surveyed employers, are "the high level of theoretical knowledge of graduates" (33.4%), and the main disadvantages are "the insufficient level of practical training" (71.4%).

The university has a comprehensive system for collecting and analyzing information for each educational program, focused on quality management and making informed decisions. Key performance indicators are developed at the university level and specified for each educational program. They include indicators of student academic performance, student satisfaction, student population dynamics, graduate employment, and other metrics that affect the development of programs and the achievement of the university's strategic goals (Regulations on monitoring the quality of education, approved by the President - Rector of KazUTB named after K. Kulazhanov JSC S. Baibekov dated 02/29/2024).

The university has a clearly defined procedure for obtaining consent for the processing of personal data. The consent procedure includes: familiarization of employees and faculty with the Regulation on the protection of personal data of JSC KazUTB named after K. Kulazhanov, approved by the President and Rector of JSC KazUTB named after K. Kulazhanov by S. Baibekov dated February 29, 2024 <https://www.kaztbu.edu.kz/ru/akkreditaciya-i-rejtingi>; signing the relevant consent forms upon admission or employment. The consent document contains information on the purposes of data processing, the list of information processed and the rights of the personal data subject. The University stores supporting documents in paper form in the HR department.

The management of the EP and the university as a whole provides constant information support for the research activities of teachers and students. The following mechanisms are in place for this: access to an extensive electronic library AIS "Electronic Library"; a joint information resource of electronic libraries with JSC "Almaty Technological University"; organization of access to full-text journals and databases in accordance with the profile of educational programs and scientific areas.

Analytical part

Analyzing the EP by the content and semantic load of the standard "Information Management and Reporting" in the accredited areas, the commission notes as a positive point that the university has a system of information management and reporting on student enrollment, academic performance, movement of the contingent, personnel, which is presented in regular reports at meetings of departments, the rector's office and the Academic Council of the university. Regular surveys of students and employers are conducted and, based on the results of their surveys/interviews, appropriate measures are taken to eliminate deficiencies.

At the same time, the EEC commission notes that according to the submitted Plan for conducting a survey for the 2024-2025 academic year, approved by the President - Rector of JSC "KazUTB named after K.Kulazhanov" S.Baybekov dated 08/29/2024, it is planned to conduct a survey of the teaching staff on satisfaction with the implementation of the educational program and working conditions (a survey "Satisfaction of the teaching staff with the university" is planned from 02/17/2025 to 03/03/2025). However, based on the analysis of the reporting materials, the university did not provide supporting data on the conduct of such a survey and its results. The lack of information in this area does not allow us to fully assess the effectiveness of the internal quality assurance system and take into account the opinion of the teaching staff in the management of the educational program.

A survey of students conducted during the visit of the IAAR EEC showed that 83.1% (58 people) were completely satisfied and 14.1% (10 people) were partially satisfied with the information provided about courses, educational programs and the academic degree received.

Strengths/best practices for OP 6B05213 – "Ecology", 6B11230 "Life Safety and Environmental Protection":

Not identified.

Recommendations of the VEC for OP 6B05213 - "Ecology", 6B11230 "Life Safety and Environmental Protection":

1. By the end of 2025, the university management is recommended to ensure the implementation of the planned activities for the survey of teaching staff and to provide the results of the analysis as part of the reporting on the educational program.

Conclusions of the VEK based on the criteria:

According to the standard "Information Management and Reporting": accredited educational programs OP 6B05213 – "Ecology", 6B11230 "Life Safety and Environmental Protection" have 17 satisfactory positions.

6.3. Standard "Development and approval of the educational program"

- ✓ The university must demonstrate the existence of a documented procedure for developing the EP and its approval at the institutional level.
- ✓ The university must demonstrate the compliance of the developed educational program with the established goals and planned learning outcomes.
- ✓ The leadership of the educational institution must determine the influence of disciplines and professional practices on the formation of learning outcomes.
- ✓ The university can demonstrate the presence of a model of a graduate of the educational program, describing the learning outcomes and personal qualities.
- ✓ The qualification awarded upon completion of the EP must be clearly defined, explained and correspond to a specific level of the NQF, QF-EHEA.
- ✓ The management of the educational program must demonstrate the modular structure of the program based on the European Credit

Transfer and Accumulation System (ECTS), ensure that the educational program and its modules (in terms of content and structure) comply with the set goals with a focus on achieving the planned learning outcomes.

✓ *The management of the educational institution must ensure that the content of academic disciplines and learning outcomes correspond to each other and to the level of education (bachelor's, master's, doctoral).*

✓ *The management of the OP must demonstrate that external examinations of the OP have been carried out.*

✓ *The management of the educational program must provide evidence of the participation of students, faculty and other stakeholders in the development of the educational program and ensuring its quality.*

✓ *The management of the educational institution must demonstrate the positioning of the educational institution in the educational market (regional/national/international) and its uniqueness.*

✓ *An important factor is the ability to prepare students for professional certification.*

✓ *An important factor is the availability of a double-degree program and/or joint programs with foreign universities.*

Evidential part

The university has implemented systemic approaches to the development and approval of educational programs at the institutional level. The development of the EP is carried out on the basis of the approved procedure (On the procedure for developing educational programs, approved by the President-Rector of JSC "KazUTB named after K.Kulazhanov" S.Baibekov dated 02/29/2024) <https://www.kaztbu.edu.kz/ru/akkreditaciya-i-rejtingi>, enshrined in local regulations (regulations, provisions and instructions). The process includes a preparatory stage, a goal-setting stage, a development stage, a stage of determining conditions and an examination stage, which is confirmed by the presence of minutes of meetings of departments and the Academic Council. When developing the EP, reference and information resources are used, including data from the National Qualifications Framework (NQF), professional standards, as well as analytical materials on labor market trends and employer requirements.

The key participants in the process of developing the EP are the teaching staff, students, representatives of the business community and other interested parties. Employers are involved in the development of programs through participation in round tables, working groups and external examinations. Representativeness is ensured through the participation of representatives of various industries and organizations.

The objectives of the EP are formulated on the basis of the university's strategic documents, labor market requirements and professional standards. The revision of the EP objectives is carried out as part of a cyclical update of the programs. The results of the analysis of the labor market, employers' requirements and social expectations are used to update the objectives and content of the programs. The minutes of the round table meetings serve as confirmation (minutes of the round table meeting dated October 4, 2023, of the Department of Chemistry, Chemical Technology and Ecology on discussing the content of educational programs); department meetings (minutes No. 5 of the meeting of the Department of Chemistry, Chemical Technology and Ecology dated November 20, 2023). Thus, according to the minutes, the following disciplines were introduced into OP 6B05213 - "Ecology" at the suggestion of Ecology Business Consulting LLC: "Ecological Biodiversity", "Urboecology", "Ecological Tourism"; into OP 6B11230 - "Life Safety and Environmental Protection" at the suggestion of Specialized Fire Department No. 6 named after Askar Zabikulin - "Environmental Impact Assessment", "Engineering Communications", "Seismological Research".

The logic of constructing accredited educational programs provides for the step-by-step development of students' competencies through a sequence of disciplines and professional practices. The competency-based approach is implemented in working curricula, linking disciplines and practices with the planned learning outcomes. The content of disciplines is updated taking into account modern scientific directions and practical requirements of the industry. When developing the EP, the department adheres to the goal of ensuring the continuity of their content, takes into account the logic of the academic relationship of disciplines, the sequence of studying disciplines by determining post- and prerequisites. For example, in the EP "Ecology", the study of the discipline "Environmental Impact Assessment", "Recycling of Solid Waste Utilization and Land Recovery", "Hydroecology", "Soil Science" is carried out after studying the discipline "Social Ecology", "Environmental Science", "Ecology and Sustainable Development", since without knowledge of theory it is impossible to write a thesis. In OP 6B11230 "Life Safety and Environmental Protection", the academic relationship of the discipline and writing a thesis with "Ecological Chemistry", "Combustion and Explosion Theory", "Fundamentals of Radiation Safety", "Technical Solutions and Methods of Protection in Emergencies". The learning outcomes for the EP are reflected in the expected results of the disciplines

when preparing the working curriculum of the discipline (Working curriculum of the discipline (syllabus) for the discipline "Occupational Safety and Health" for EP 6B11230 "Life Safety and Environmental Protection", Astana 2024)

All EPs have a modular structure that complies with the European Credit Transfer and Accumulation System (ECTS). The modules are focused on achieving the objectives and planned learning outcomes and contain disciplines and practices that facilitate their implementation.

Employers participate in the development of the content of both disciplines and professional practices, which is confirmed by the minutes of joint meetings and cooperation agreements. The places for internships are determined taking into account individual educational trajectories and contracts concluded with organizations corresponding to the training profile based on the Rules for organizing and conducting professional internships and determining enterprises and organizations as bases for undergraduate internships, approved by the President and Rector of KazUTB named after K. Kulazhanov JSC S. Baibekov on 02/29/2024. At KazUTB named after K. Kulazhanova" there is a list of practice bases with which the university signed a memorandum of agreement with the enterprises: LLP "Ecology Business Consulting", scientific and production association "Energy-saving technologies" Astana, LLP "Institute of coal chemistry and technology" Astana, State Institution "Department of emergency situations of Astana", LLP "ECO DOS", JSC National mining company "Tau-Ken Samruk" Astana, "Ministry of Ecology Committee of Forestry and Wildlife" Astana, LLP "Daniyar Biday" North Kazakhstan region, Taiynshinsky district, RSE on the right of economic management "Kazhydromet" of the Ministry of Energy of the Republic of Kazakhstan.

The fact of completing internships is recorded in the credit documentation and student reports. The requirements for internship organizations are set out in the internship program (Program and methodological guidelines for completing industrial internships 1 and 2 for students in the EP6B05213 - "Ecology", Program and guidelines for completing industrial practice 1 and 2 for students in OP 6B11230 "Life Safety and Environmental Protection", approved by the Vice-Rector for Educational Methods D.S. Zhamangarin on September 4, 2023)

The graduate model of the EP is developed taking into account the educational level and professional standards, includes a description of professional and personal competencies and is fixed in the EP documentation (Regulations on the graduate competency model, approved by the President-Rector of JSC KazUTB named after K. Kulazhanov S. Baibekov dated 02/29/2024. The teaching staff, graduates and representatives of employers are involved in the development of the model. The qualifications of EP graduates meet the requirements of the NQF and professional standards. The programs contain planned learning outcomes correlated with Dublin descriptors.

Students are informed about the results of their studies and the qualifications awarded by publishing this information on the official website of the university, in educational programs and in individual student curricula. Additionally, information is communicated to students at introductory meetings and consultations with advisers.

The OP management demonstrates the implementation of external program assessments. The procedure for conducting an external assessment of the OP with the involvement of employers and independent experts has been established. Expert opinions confirming the OP's passage of the external assessment are presented (Expert opinion on OP 6B11230 "Life Safety and Environmental Protection" from the senior firefighter of the fire station No. 6 named after Askar Zabikulov A.K. Kabzhanov dated 02/27/2025; Expert opinion on OP 6B05213 - "Ecology" with and a catalog of elective disciplines from the director of Ecology Business Consulting LLC Muratbekov Zh.B. dated 03/15/2025).

The university conducts an analysis of the EP positioning in the educational market based on internal research. Statistical data on the academic performance of students are regularly downloaded from the system based on the results of midterm controls 1, 2 and session results. based on the Platonus portal (kaztbu.edu.kz). An analysis of students' academic performance and examinations is conducted at meetings of the Department of "HHTiE". The Department holds a discussion of students' academic performance results twice a year to analyze, monitor and identify trends in the quality of mastering the discipline material. Once a year, the Vice-Rector for Academic and Methodological Work, the Dean of the Faculty, and the Head of the Academic and Methodological Department are invited to discuss the results.

Analytical part

An analysis of accredited educational programs for compliance with the criteria of the standard “Development and approval of an educational program” shows that the content of educational programs, the sequence of their implementation, and the depth of mastery in all educational programs require improvement in accordance with regulatory documents and labor market demands.

During the focus group interviews and documentation analysis, the VEK commission noted the absence of clearly defined requirements for participants in the review process of educational programs. The existing methodological documents do not specify the criteria for selecting employer representatives, which creates risks of insufficient representativeness and effectiveness of their participation in the process of developing and approving the EP. This may affect the quality and practical orientation of the programs.

The Department of Chemistry, Chemical Technology and Ecology, to which the accredited educational programs belong, has the potential to carry out work in the field of providing students with additional professional competencies. However, as a result of interviewing students, it was noted that the training process does not provide for the possibility of professional certification, and there are no connections with certification centers.

The development plans of the EP cluster include expansion of relations with domestic and foreign partners in order to implement joint scientific-methodological and scientific-pedagogical research in the direction of the EP, work has been carried out to harmonize educational programs with similar programs of Kazakhstani and foreign universities, at the same time, the EEC notes that the university does not implement dual-degree or joint education programs within the framework of the educational programs of the cluster. This is confirmed by interviews with students and indicators of academic mobility over the past three years.

The survey of the teaching staff conducted during the visit of the NAAR VEC demonstrated a satisfactory assessment of 27.7% (18 people) of the attention of the university management to the content of the EP. At the same time, the content of the EP "very well" satisfies the needs of 70.8% of the teaching staff, and relatively poorly 1.5%. The survey of students showed that 81.7% are fully satisfied with the quality of the educational program as a whole; 18.3% (13 people) are partially satisfied.

Strengths/best practices for OP 6B05213 – “Ecology”, 6B11230 “Life Safety and Environmental Protection”:

Not identified.

Recommendations of the VEC for OP 6B05213 - "Ecology", 6B11230 "Life Safety and Environmental Protection":

1. By the end of 2025, the university management must make changes to the university's methodological documents, clearly regulating the requirements and procedures for selecting representatives of employers, faculty and other participants in the process of reviewing and developing the EP.

2. By the beginning of the 2025-2026 academic year, the leadership of the educational institution, in order to conduct professional certification of students, shall develop an action plan for students to complete courses in the context of professional activities within the framework of open educational platforms, and begin its implementation.

3. By the beginning of 2026-2027, the leadership of the EP shall ensure the practical implementation of double-degree or joint education programs with foreign partner universities in the areas of the EP cluster.

Conclusions of the VEK based on the criteria:

According to the standard “Development and approval of the educational program”: accredited educational programs OP 6B05213 - “Ecology”, 6B11230 “Life Safety and

Environmental Protection” have 10 satisfactory positions, 2 - suggesting improvement of the position.

6.4. Standard “Continuous monitoring and periodic evaluation of educational programs”

- ✓ *The university must ensure a revision of the content and structure of the educational program, taking into account changes in the labor market, employer requirements and the social demands of society.*
- ✓ *The university must demonstrate the existence of a documented procedure for monitoring and periodic evaluation to achieve the objectives of the EP and continuously improve the EP.*
- ✓ *Monitoring and periodic evaluation of the OP should consider:*
 - ✓ *the content of the programs in the context of the latest achievements of science and technology in a specific discipline;*
 - ✓ *changes in the needs of society and the professional environment;*
 - ✓ *workload, academic performance and graduation of students;*
 - ✓ *the effectiveness of student assessment procedures;*
 - ✓ *needs and level of satisfaction of students;*
 - ✓ *compliance of the educational environment and the activities of support services with the objectives of the educational program.*
- ✓ *The management of the OP must publish information about changes to the OP, inform interested parties about any planned or undertaken actions within the OP.*
- ✓ *Support services should identify the needs of different groups of students and the degree of their satisfaction with the organization of learning, teaching, assessment, and mastery of the educational program as a whole.*

Evidential part

The university has an approved and documented procedure for revising educational programs, which is regulated by the Regulation on the procedure for developing educational programs, approved by the President-Rector of JSC "KazUTB named after K.Kulazhanov" S.Baibekov dated 02/29/2024). The revision of the EP and KED is carried out annually or unscheduled in the presence of changes in the labor market and regulatory requirements. Responsibility for revising the EP is assigned to the departments with the mandatory participation of representatives of employers.

The procedure for monitoring and periodic evaluation of the EP at the university is carried out on the basis of internal documents of the QMS: Regulation on the procedure for developing educational programs; Regulations for planning, organizing and monitoring the educational process for the EP; Regulation on the procedure for developing a plan for the development of an educational program and monitoring its implementation; Regulation on the development of a catalog of elective disciplines <https://www.kaztbu.edu.kz/ru/akkreditaciya-i-rejtingi> To assess the success of the implementation plan of the OP, external and internal audits, examination of methodological support, assessment of activities and consideration of issues at collegial bodies are used.

The university regularly analyzes external changes, including monitoring labor market trends, requests from the professional community, and educational policy. To identify changes, employer and graduate survey methods are used. All proposals for changing the content of the EP are discussed at departmental meetings and faculty methodological councils. Comments from employers, students, and teachers are taken into account. The decision to make changes is approved by the Academic Council of the university (Extract from the minutes of the meeting of the Academic Council of JSC KazUTB named after K.Kulazhanov dated March 28, 2024, minutes No. 8, "On approval of updates made to the OP for the 2024-2025 academic year"; Extract from the minutes of the meeting of the Academic Council of JSC KazUTB named after K.Kulazhanov dated February 27, 2025, minutes No. 7, "On consideration and recommendation for approval by the Board of Directors of changes made to the OP to update the OP passport in the OP Register").

Monitoring and periodic assessment of the EP are carried out in accordance with the regulated procedure recorded in the "Regulations on monitoring the quality of education". The monitoring results are discussed at meetings of the departments of the Academic Council of the university. Based on them, decisions are made to adjust the content of the EP, curricula and elective disciplines. Monitoring covers the content of programs taking into account the latest scientific and technical achievements, changes in the professional environment, academic performance of students and the effectiveness of assessment procedures. The results are recorded in the information systems of the university.

The following types of monitoring have been defined in JSC KazUTB named after K.Kulazhanov: monitoring the quality of admission, which involves assessing the academic preparedness of applicants admitted to the EP, and is carried out within the framework of the analysis of the results of the applicants' entrance examinations; monitoring the current academic performance of students, which involves assessing the progress of students in the framework of seminars, colloquiums, independent work under the guidance of a teacher, self-study, exams and internships, and is carried out through a rating system; monitoring the quality of student graduation, which involves assessing the effectiveness of monitoring the progress of students at different stages of their education at the university and is carried out within the framework of the analysis of the results of state examinations in specialized disciplines and the defense of diploma theses; monitoring the results of professional internship; monitoring the quality of the organization of the educational process, which involves assessing the mechanisms for the implementation of the EP, taking into account the requirements of state educational standards, model rules for the activities of universities and is carried out by a commission in the process of self-assessment; monitoring the quality of teaching disciplines, which involves assessing the development of the institute's methodological system as a whole and the level of scientific, methodological, laboratory and technical support for specific disciplines of the curriculum <https://www.kaztbu.edu.kz/ru/akkreditaciya-i-rejtingi>.

Student support services regularly conduct surveys to identify the needs of various groups of students and assess their satisfaction with the learning processes and mastering the EP. The results of these surveys are taken into account when improving programs and improving the educational environment. Thus, based on monitoring data for 2023, a decision was made to introduce dual learning methods into education (Report on the survey results (Questionnaire on the quality of teaching - student opinion), approved by the President - Rector of JSC "KazUTB named after K. Kulazhanov" S. Baibekov dated 05.01.2024). On this basis, the Department of Chemistry, Chemical Technology and Ecology concluded an agreement on cooperation in the educational process with elements of dual training with the Scientific and Production Center for Ecological and Industrial Biotechnology LLP for OP 6B05213 - "Ecology", 6B11230 "Life Safety and Environmental Protection" dated 08/26/2024, a working program for dual training for 2024-2025 for OP 6B11230 "Life Safety and Environmental Protection" was developed, approved by the President - Rector of JSC "KazUTB named after K. Kulazhanov" S. Baibekov dated 08/27/2024, classes are held.

Analytical part

The analysis of the procedures for monitoring and periodic evaluation of the educational program is carried out on the basis of: analysis of curricula, the catalog of elective disciplines, individual plans of students' programs, internal regulatory documents governing the implementation of educational programs, their monitoring and evaluation; minutes of collegial bodies and department meetings; interviews and questionnaires of students, teaching staff and interested parties; results of observations of the activities of support services.

At the same time, the commission notes that this standard does not fully reflect the issues of informing interested parties about any planned or undertaken actions in relation to the EP. During the analysis of the website of the university and departments, it was established that only current versions of the educational programs of the KED, development plans are posted in the public domain. The absence of an archive of changes and previous versions of the EP on the website does not allow to fully trace the dynamics and logic of the changes made to the programs, and also complicates the external assessment of the transparency and effectiveness of the process of improving the EP.

Strengths/best practices for OP 6B05213 – “Ecology”, 6B11230 “Life Safety and Environmental Protection”:

Not identified.

Recommendations of the VEC for OP 6B05213 - "Ecology", 6B11230 "Life Safety and Environmental Protection":

1. The responsible structural unit must promptly update the university website with current information on plans for the development and implementation of educational programs.

Conclusions of the VEK based on the criteria:

According to the standard "Continuous monitoring and periodic assessment of educational programs": accredited educational programs OP 6B05213 - "Ecology", 6B11230 "Life safety and environmental protection" have 9 satisfactory positions, 1 position suggesting improvement.

6.5. Standard "Student-centered learning, teaching and assessment of academic performance"

- ✓ The leadership of the educational institution must ensure respect and attention to different groups of students and their needs, providing them with flexible learning paths.
- ✓ The management of the educational program must ensure that teaching is based on modern achievements of world science and practice in the field of study, the use of various modern teaching methods and assessment of learning outcomes that ensure the achievement of the educational program's goals, including competencies and skills for performing scientific work at the required level.
- ✓ The management of the educational program must determine the mechanisms for distributing the students' academic workload between theory and practice within the educational program, ensuring that each graduate masters the content and achieves the educational program's goals.
- ✓ An important factor is the presence of own research in the field of teaching methods of the OP disciplines
- ✓ The university must ensure that the procedures for assessing learning outcomes correspond to the planned results and objectives of the educational program.
- ✓ The university must ensure consistency, transparency and objectivity of the mechanism for assessing the learning outcomes of the EP. The criteria and methods for assessing learning outcomes must be published in advance.
- ✓ Assessors must be proficient in modern methods of assessing learning outcomes and regularly improve their skills in this area.
- ✓ The leadership of the EP must demonstrate the existence of a feedback system on the use of various teaching methods and assessment of learning outcomes
- ✓ The leadership of the EP should demonstrate support for learner autonomy while providing guidance and assistance from the teacher.
- ✓ The management of the educational institution must demonstrate the existence of a procedure for responding to student complaints.

Evidential part

At the university, student-centered learning is implemented by fulfilling the following provisions. At JSC KazUTB named after K.Kulazhanov, the needs of students are identified at the admission stage and during the monitoring of student satisfaction during the learning process. As follows from the document "Student Honor Code (Approved at the meeting of the Academic Council on 12/29/2024) <https://kaztbu.edu.kz/ru/akkreditaciya-i-rejtingi> In order to ensure the fastest possible socialization and adaptation of students, the following is carried out at JSC KazUTB named after K. Kulazhanov: the Council of Curators for the Study of the Socio-Psychological Atmosphere at the University operates, which conducts regular monitoring of the atmosphere among students, identifies and prevents problems arising in the process of students' life; a set of measures is carried out to adapt first-year students at the University; measures are taken to promote the socialization of final-year students preparing to enter the competitive environment in the labor market; a survey is conducted among students "The Teacher through the Eyes of Students" in order to determine the compliance of expectations, needs and requests of students in real practice <https://platonus.kaztbu.edu.kz>.

When forming educational programs, the opinion of students is actively taken into account through the participation of representatives of the student community in the work of the Academic Council (Composition of the Academic Council of JSC KazUTB named after K.Kulazhanov for the 2024-2025 academic year, approved by the President of JSC KazUTB named after K.Kulazhanov E.T. Kulazhanov dated 05.02.2025; Composition of the Educational and Methodological Council for 2024-2025, approved by the decision of the Educational and Methodological Council, protocol No. 3-1 dated 27.01.2025). The results of regular surveys of students and graduates, feedback from employers are also used.

Flexible learning paths are ensured by the possibility of choosing elective disciplines, undergoing internships of the student's choice in various partner organizations. In accordance with

the Regulations for planning, organizing and monitoring the educational process for the EP (approved at the meeting of the Academic Council dated December 29, 2024), a student at the university has the right to study individual academic disciplines in other universities of the Republic of Kazakhstan; receive additional educational services in excess of the state standard for an additional fee; free access to and use of the book fund of the library and reading room of JSC KazUTB named after K. Kulazhanov; participation in student self-government bodies; free expression of their own opinions and respectful attitude towards themselves on the part of the employees and teachers of JSC KazUTB named after K. Kulazhanov.

To ensure equal opportunities in achieving learning outcomes, a support service for students with special educational needs operates. The university has developed and is implementing the Regulation on Inclusive Education, approved by the President-Rector of JSC KazUTB named after K. Kulazhanov S. Baibekov on 02/29/2024. The teaching staff and management of the accredited educational institutions have completed courses on inclusive education (a certificate of advanced training courses on the topic "Erekshe bThe academic year of the educational institution was completed by Nurtay Zh. T. on 08.06.2024, 80 hours. A system of tutoring and mentoring is also being implemented for students of different categories. Academic support for students in the process of their studies at JSC KazUTB named after K. Kulazhanov is provided by department advisers and deputy deans of the faculty. The activities of advisors are regulated by the Regulation on the Advisor (approved at the meeting of the Academic Council on 28.12.2024. <https://kaztbu.edu.kz/ru/akkreditaciya-i-rejtingi>).

Teachers of JSC "KazUTB named after K. Kulazhanova" actively introduce modern teaching methods, such as case studies, game forms of training and others. JSC "KazUTB named after K. Kulazhanova" applies various forms of knowledge assessment, in addition to tests, there is a transition to oral and written forms of assessment (Working curriculum of the discipline (syllabus) on the discipline "Safety and Labor Protection" for OP 6B11230 "Life Safety and Environmental Protection", Astana 2024). Teachers conduct entrance testing of students' knowledge, where their level is determined. Then an individual approach to each student is formed, based on the information received. The effectiveness of the methods used is assessed through an analysis of academic performance, regular collection of feedback from students and teachers, discussion at department meetings.

The university is working on developing and adapting its own methodological recommendations and tools based on the best international practices and internal research. At the department "Chemistry, Chemical Technology and Ecology" implements its own research in the field of teaching methods for the disciplines of the educational program, which is confirmed by publications in peer-reviewed scientific journals and methodological developments of teachers.

Table 2 - Methodological materials published during the reporting period for accredited educational programs

Educational program	Methodological materials published during the reporting period
OP 6B11230 "Life Safety and Environmental Protection"	Takirova A. Kh., Aligozhina D. A., Usenkulova Sh. Zh., Nurtay Zh. T., Turakkazy A. A. Labor protection Textbook, Astana, 2022, p. 95. ISBN 978-601-326-641-1 Takirova A. Kh., Usenkulova Sh. Zh., Nurtay Zh. T., Slamkul I. S. Zhumabekova A. K. Fire safety. Study guide, Almaty, 2024, 111 p. ISBN 978-601-7928-42-1 Takirova A. Kh., Usenkulova Sh. Zh., Nurtay Zh. T., Slamkul I. S. Turakkazy A. A. Educational and methodological manual, Almaty, 2024, p. 73. ISBN 978-601-7171-16-2 Takirova A. Kh., Usenkulova Sh. Zh., Nurtay Zh. T., Slamkul I. S. Turakkazy A. A. Enbek Sep_mdi_ligi. Textbook, Almaty, 2024, p. 179. ISBN 978-601-7171-17-9
OP 6B05213 – "Ecology"	Karibaeva M. K., Mamytova N. S., Akhaeva A. A. Tirshilik areketinin kauipizdigizderi. Oku kuraly, Nur-Sultan, 2020 NB, Koshkarov. ,AAAkhaeva., AKKolkpek. Ecology and sustainable development. Training manual., Almaty city. 2020

	Akhaeva A.A., Karibaeva M., Mamytova N.S. Biogeochemistry and ecotoxicology. Oku kuraly, Almaty, 2023 4Akhaeva A.A., Korshagan orta lastanuynyn bioindications. Oku kuraly, Almaty, 2023. Akhaeva A.A., Tuyakbaeva A.U. Ecological bioclimatology. Oku kuraly, Almaty, 2023
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The mechanisms for distributing the academic load between theoretical and practical training are recorded in the curricula and methodological recommendations for the implementation of the EP. All programs ensure a balance between classroom, independent and practical work of students. The progress of students along the educational trajectory is monitored using the AIS Platonus, where individual trajectories of students, the results of midterm assessment and course control are recorded.

Analytical part

The Commission notes that the University is committed to developing objective means for assessing students' knowledge, using the recommendations of the latest version of ECTS and implementing a clear anti-corruption policy.

The information provided in the self-report in the context of this standard was sufficiently confirmed during the visit of the VEK. The university has developed an Academic Policy approved by By the President-Rector of JSC "KazUTB named after K.Kulazhanov" S.Baybekov dated 02/29/2024, containing the main issues of educational and organizational activities of students. In general, both students and the teaching staff expressed positive opinions on the progress of the accredited educational programs, which was subsequently confirmed by the survey results. According to the survey data, students express complete satisfaction with the availability of academic counseling - 83.1% (59 people); availability of healthcare services - 76.1% (54 people); the level of availability of library resources - 84.5% (60 people); objectivity and fairness of teachers - 76.1% (54 people); teaching staff requirements for students - 76.1% (54 people).

During the visit to the practice bases, it was revealed that, in addition to students undergoing all types of practice, laboratory field classes are held at the enterprises: - an agreement on cooperation in the educational process with elements of dual training was concluded with LLP "Scientific and Production Center for Environmental and Industrial Biotechnology" for OP 6B05213 - "Ecology", 6B11230 "Life Safety and Environmental Protection" dated 08/26/2024, a working program for dual training for 2024-2025 was developed for OP 6B11230 "Life Safety and Environmental Protection", approved by the President - Rector of JSC "KazUTB named after K. Kulazhanov" S. Baibekov dated 08/27/2024.

An analysis of the system for responding to student complaints showed that the university has elements of practice for handling student complaints, but there is no unified documented and regulated procedure. Complaints and claims from students received as a result of an anonymous survey and during meetings with the management of JSC KazUTB named after K. Kulazhanov are registered without fail; All official appeals (including complaints) are submitted by students in writing to the dean's office of JSC "KazUTB named after K.Kulazhan". At the same time, there is no single local act regulating the procedure for submission, review periods, responsible persons and appeal procedures.

Strengths/best practices for OP 6B05213 – “Ecology”, 6B11230 “Life Safety and Environmental Protection”:

Not identified.

Recommendations of the VEC for OP 6B05213 - "Ecology", 6B11230 "Life Safety and Environmental Protection":

1. Before the start of the 2025-2026 academic year, the university management develop and approve a formal procedure for responding to student complaints, including clear regulations for filing complaints; fixed deadlines for reviewing and informing students about decisions taken;

identification of persons and departments responsible for reviewing complaints; a mechanism for appeals and independent assessment of the decision on the complaint; a system of regular monitoring and analysis of incoming requests and complaints.

Conclusions of the VEK based on the criteria:

According to the standard “Student-centered learning, teaching and assessment of academic performance”: accredited educational programs OP 6B05213 - “Ecology”, 6B11230 “Life safety and environmental protection” have 9 satisfactory positions, 1 position suggesting improvement.

6.6. Standard "Students"

- ✓ The university must demonstrate a policy for the formation of a contingent of students and ensure transparency and publication of procedures regulating the life cycle of students (from admission to completion).
- ✓ The management of the OP should provide for the implementation of special adaptation and support programs for newly admitted and foreign students.
- ✓ The university must demonstrate that its actions comply with the Lisbon Recognition Convention, including the existence and application of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and informal education.
- ✓ The university must provide opportunities for external and internal academic mobility of students, as well as assist them in obtaining external grants for their studies.
- ✓ The university should actively encourage students to self-educate and develop outside the main program (extracurricular activities).
- ✓ An important factor is the presence of a mechanism to support gifted students.
- ✓ The institution must demonstrate cooperation with other educational organisations and national centres of the “European Network of National Information Centres on Academic Recognition and Mobility/National Academic Recognition Information Centres” ENIC/NARIC in order to ensure comparable recognition of qualifications.
- ✓ The university must provide students with internship places, demonstrate the procedure for facilitating the employment of graduates, and maintaining contact with them.
- ✓ The university must demonstrate the procedure for issuing graduates with documents confirming the qualifications they have received, including the learning outcomes they have achieved.
- ✓ The leadership of the OP must demonstrate that program graduates have skills that are in demand in the labor market and that these skills are truly relevant.
- ✓ The management of the educational institution must demonstrate the existence of a mechanism for monitoring the employment and professional activities of graduates.
- ✓ An important factor is the presence of an active alumni association/association.

Evidential part

The university has a clearly defined policy for the formation of the student body, which is aimed at attracting talented applicants and ensuring the transparency of all procedures. The university actively applies open and clear procedures for the admission, transfer, expulsion and reinstatement of students, which are approved at the level of internal regulatory documents and communicated to students and applicants through the university website, information booklets and during career guidance events (Rules for admission to JSC KazUTB named after K. Kulazhanov, approved by the decision of the Board of Directors, JSC "KazUTB named after. K. Kulazhanova", protocol No. 2 dated 05/02/2024) <https://kaztbu.edu.kz/ru/pravila-priema>.

The student life cycle procedures, including admission, transfer from one course to another, credit transfer from other universities, completion of studies and expulsion, are clearly regulated in the Academic Policy and Internal Regulations. All key aspects of the life cycle are accompanied by advisory support from the Student Service Center.

An annual analysis of the contingent for the EP is carried out, including the dynamics of recruitment, transfers, expulsions and academic leaves, which allows for timely identification of problem areas and improvement of the recruitment and retention policy of students. The total number of students for the 2024-2025 academic year is 238 people, of which 63 are studying on a grant and 175 on a contractual basis. The contingent of students in educational programs 6B05213 - "Ecology", 6B11230 "Life Safety and Environmental Protection" from 2019 to 2023 is presented in Table 3.

Table 3 - Dynamics of changes in the contingent of students in accredited educational programs

Academic year	Number of students			
	1 course paid/grant	2nd year paid/grant	3rd year paid/grant	4th year paid/grant
OP 6B05213 – “Ecology”				
2021-2022	19	18	19 (15/4)	13 (12/1)
2022-2023	21	16	19	19 (15/4)
2023-2024	26	29	17	18
2024-2025	73 (45/28)	22 (14/8)	27(20/7)	17 (14/3)
OP 6B11230 "Life Safety and Environmental Protection"				
2021-2022	9(-/9)	4820/28)	26(7/-19)	29 (22/7)
2022-2023	25	36	41	18
2023-2024	15	38	31	23
2024-2025	19	28	38	24

The university implements approved adaptation programs for first-year students and foreign students (Regulations on Foreign Students dated February 29, 2024, Protocol No. 7). Meetings with the administration of faculties and deans' offices and tours of the university buildings are held for newly admitted and foreign students. The student guide and all information on the educational process are presented on the university website <https://kaztbu.edu.kz/ru/spravochnik-putevoditel> and on the portal <https://kaztbu.edu.kz/ru/pravila-priema>.

The University officially adheres to the principles of the Lisbon Recognition Convention, which is recorded in the regulatory documents governing the recognition of qualifications and previous learning outcomes. The recognition mechanism covers academic mobility, formal, informal and additional education. Students and faculty have access to instructions on recognition procedures, which are published on the University portal (PD on the procedure for recognizing learning outcomes in formal and informal education, approved by the President - Rector of JSC KazUTB named after K. Kulazhanov S. Baibekov dated 12/27/2023). The University actively promotes the nostrification of documents of foreign students through interaction with education authorities.

Table 4 - Results of academic mobility of students from 2021 to 2023

N o.	Period	Full name	OP	Well	University	Country, city
Students of KazUTB on mobility programs						
1	2023-2024 2nd semester	Zhylkybay Daniyal Kayyrzhanuly	OP 6B11230 Life safety and environmental protection	3	Kokshetau University named after Abay Myrzakhmetov	Republic of Kazakhstan
Students who arrived at KazUTB from other universities						
1	2nd semester 2024-2025	Sailaubay Nazerke Ergalikyzy	OP 6B05213 Ecology	2	Almaty Technological University	Kazakhstan, Almaty
2	2nd semester 2024-2025	Tolegen Gauhar Asankyzy	6B05213-Ecology	2	Almaty Technological University	Kazakhstan, Almaty

The University creates ample opportunities for extracurricular activities of students. Extracurricular activities and participation of students in events are carried out in accordance with the educational work plan. (Educational work plan for the 2024-2025 academic year, approved by the President - Rector of JSC "KazUTB named after K. Kulazhanov" S. Baibekov). Students have

access to resources for self-education, including library collections, electronic databases and online platforms. Monitoring of satisfaction with extracurricular activities is carried out within the framework of regular surveys, the results of which demonstrate a high level of student involvement and their positive assessment of opportunities for development outside the main educational program.

The university implements a system of measures to support gifted students. Gifted students are identified on the basis of academic achievements, participation in scientific projects, competitions and olympiads. Every year, students of JSC "KazUTB named after K. Kulazhanov" participate in scientific and practical conferences on all educational programs. Thus, according to the results of the Republican competition of scientific research works of the MNI V O RK, a student of the EP "Ecology" Kalimullina A.M. received a 3rd degree diploma on the topic "Modeling the process of layer gasification of coal deposits of Kazakhstan," supervised by associate professor Nurgaliev N.U; a student of the EP "Life Safety and Environmental Protection" Askerbek Amina received a 1st degree diploma, supervised by associate professor Nurtai Zh.T.

Students are informed about support opportunities through personal accounts, curatorial hours and internal information resources. Thus, KazUTB provides a discount on tuition within the framework of the social support program for students. Based on the "Regulations on the procedure for providing "Kulazhanov" benefits for tuition fees", approved by the decision of the Academic Council of JSC "KazUTB named after K. Kulazhanov". dated 02/29/2024 No. 7, the university has a system of discounts on educational services of higher and postgraduate professional education for students on a contractual basis. Discounts apply to students from socially protected groups of the population and to talented youth. <https://kaztbu.edu.kz/ru/socialnyj-paket-dlya-obuchayushchihsya> The support system allows us to stimulate academic success and development of students' talents, which has a positive effect on the university's image and the results of their further professional development.

Within the framework of the Bologna process, great importance is attached to the academic mobility of students, teachers and administrative staff of the university. The mechanism for recognizing the learning outcomes acquired during academic mobility is prescribed in the "PD on academic mobility of students, teaching staff and employees", approved by the President - Rector of JSC "KazUTB named after K. Kulazhanov" S. Baybekov dated 28.02.024.

The university has a comprehensive approach to organizing internships, ensuring that the internship bases are aligned with the profile of educational programs. The requirements for internship sites are regulated by internal regulatory documents and require that partners have a material base and the opportunity for students to participate in real professional processes (Rules for organizing and conducting professional practice and determining enterprises and organizations as practice bases for bachelor's degree; Regulations on professional practice (bachelor's degree), approved by the President - Rector of JSC "KazUTB named after K. Kulazhanov" S. Baibekov dated 02/29/024.) The following agreements for internships have been concluded at the Department of Chemistry, Chemical Technology and Ecology (Table 5).

Table 5 - Organization of professional internships for students of accredited educational programs.

Educational program	Organization, contract No., contract term, order No.
OP 6B05213 - "Ecology"	Scientific and production association "Energy-saving technologies", Astana No. 534 09/02/24-12/31/2029
	LLP "Institute of Coal Chemistry and Technology", Astana
	Kazekoexpert LLP, Astana
OP 6B11230 – "Life safety and environmental protection"	State Institution "Department of Emergency Situations of Astana"
	RSE on the Right of Economic Management "Kazhydromet" of the Ministry of Energy of the Republic of Kazakhstan"
	Petrum LLP, Astana No. 18 01/09/2023-01/03/2028
	LLP "Azimut SpetsStroy", Astana, 24/1 12/29/2022-12/29/2029
	TOO "SVN company" city Karaganda

	Republican State Enterprise on the Right of Economic Management "Republican Research Institute for Labor Protection of the Ministry of Labor and Social Protection of the Population of the Republic of Kazakhstan", Astana, Baikonur District, Alexander Kravtsov Street, Building 18
	"ALLZIYA" LLP Astana, Almaty district, South-East residential area, Burabay street, building 43

The procedure for issuing documents on qualifications is clearly regulated and enshrined in academic and administrative regulations (Rules for filling out and issuing educational documents of our own sample, approved by the President - Rector of JSC "KazUTB named after K.Kulazhanov" S.Baybekov dated 02/29/024). Upon completion of the EP, the graduate receives a diploma of the established sample indicating the assigned qualification, as well as a transcript with a list of mastered disciplines and the number of credits.

The assessment of the development of professional competencies is carried out through final certification, defense of final qualification works and assessment of the results of internships. The validity of the demand for skills is confirmed by the results of annual surveys of employers, which demonstrate the compliance of graduates' professional skills with the requirements of the labor market.

The work on employment of KazUTB graduates is coordinated by the Internship and Employment Department. When calculating the percentage of employed graduates for the OP "6B05213-Ecology", 6B11230 "Life Safety and Environmental Protection" is based on certificates from the place of work provided by graduates. The percentage of those employed in the first year after graduation for all bachelor's degree programs for the accredited period averages 69%. Employment information is analyzed and reviewed by the Academic Council. The Career Development Office sends information about vacancies received from partner employers to graduates who are not provided with work. In recent years, there has been a stable trend in the employment rates of graduates of the OP "6B05213-Ecology" and 6B11230 "Life Safety and Environmental Protection" (Table 6).

Table 6 -Employment of graduates of the year by educational program

Years	Number of graduates	Employed	% employment
OP 6B05213 - "Ecology"			
2020	19	19	100%
2021	10	6	60%
2022	17	12	70%
2023	17	13	76%
2024	18	11	61%
OP 6B11230 – "Life safety and environmental protection"			
2020	46	31	67%
2021	48	29	60%
2022	48	27	56%
2023	39	30	77%
2024	29	14	48%

Analytical part

The information provided in the self-report in the context of this standard was sufficiently confirmed during the visit of the VEC. During the visit to the practice base of the Scientific and Production Center for Environmental and Industrial Biotechnology LLC for OP 6B05213 - "Ecology", 6B11230 "Life Safety and Environmental Protection" real places of industrial practice were visited, there are concluded agreements for the professional practice of students.

At the same time, the VEC notes that the academic mobility of students in the accredited educational programs is low. In addition, the VEC commission notes the lack of participation of students in competitions for external grants and international competitions.

The commission also notes that the university implements individual elements of monitoring

the employment and professional activities of graduates (questionnaires, interaction with employers). However, the data provided is fragmentary, and there is no systematic approach to monitoring the professional trajectory of graduates on a regular basis. Individual events are held irregularly and do not cover all graduates, which reduces the effectiveness of using the information obtained to improve educational programs.

In addition, an important element in developing interaction with graduates is the presence of an active association or union of graduates, which is currently at the creation stage. The absence of a fully functioning association limits the possibilities of systematic support for graduates, collecting feedback and their involvement in the development of the university and educational programs.

Strengths/best practices for OP 6B05213 – “Ecology”, 6B11230 “Life Safety and Environmental Protection”:

Not identified.

Recommendations of the VEC for OP 6B05213 - "Ecology", 6B11230 "Life Safety and Environmental Protection":

1. Before the start of the 2025-2026 academic year, the EP management shall develop and approve an indicative plan for increasing the academic mobility of students and assistance in obtaining external grants for education, including at least 2 new agreements with foreign universities, begin its implementation.

2. By the end of 2025, the university management must create a single regulated mechanism for monitoring the employment and professional activities of graduates, including regular analysis of the results with subsequent integration of the findings into the processes of reviewing and updating the EP.

3. By the end of 2025, the university management establish the University Alumni Association, develop and approve the Regulations on its activities with the mandatory inclusion of annual action plans and mechanisms for widely informing graduates through the website, social networks and other communication channels.

Conclusions of the VEK based on the criteria:

According to the “Students” standard: accredited educational programs OP 6B05213 – “Ecology”, 6B11230 “Life Safety and Environmental Protection” have 9 satisfactory positions, 3 positions suggesting improvement of the position.

6.7. Standard "Teaching staff"

- ✓ The university must have an objective and transparent personnel policy in the context of the educational program, including hiring (including invited faculty), professional growth and development of personnel, ensuring the professional competence of the entire staff.
- ✓ The university must demonstrate that the quality of the teaching staff complies with the established qualification requirements, the university strategy, and the goals of the educational program.
- ✓ The leadership of the EP must demonstrate the changing role of the teacher in connection with the transition to student-centred learning and teaching.
- ✓ The university must provide opportunities for career growth and professional development of teaching staff, including young teachers.
- ✓ The university must involve in teaching specialists from relevant fields who possess professional competencies that meet the requirements of the educational program.
- ✓ The university must demonstrate the existence of a mechanism for motivating the professional and personal development of the teaching staff.
- ✓ The university must demonstrate the widespread use of information and communication technologies and software by the teaching staff in the educational process (for example, on-line learning, e-portfolios, MOOCs, etc.).
- ✓ The university must demonstrate its focus on developing academic mobility and attracting the best foreign and domestic teachers.
- ✓ The university must demonstrate the involvement of each teacher in promoting a culture of quality and academic integrity in the university, and determine the contribution of the teaching staff, including invited ones, to achieving the goals of the educational program.
- ✓ An important factor is the involvement of teaching staff in the development of the economy, education, science and culture of the region and the country.

Evidential part

KazUTB has an objective and transparent personnel policy, including in the context of the

OP, including hiring, professional growth and development of personnel, ensuring the professional competence of the entire staff of the university. PD on personnel policy, approved by the President - Rector of JSC "KazUTB named after K. Kulazhanov" S. Baybekov dated 02/29/024.regulates in detail the processes of hiring, professional growth and development of teaching staff, including the involvement of external experts and visiting teachers.

The procedures for forming the staff of the EP are based on the principles of openness and objectivity: appointment and promotion are carried out on a competitive basis, taking into account the personal achievements of the teacher and his contribution to the development of educational programs. The procedures for hiring, registering, dismissing and certifying teachers are carried out in accordance with the Regulation on holding a competition for filling vacant teaching staff positions dated 12/27/2023. <https://kaztbu.edu.kz/ru/akkreditaciya-i-rejtingi>. Advanced training is the official duty of the faculty and research staff of JSC KazUTB named after K. Kulazhanov. Advanced training of the faculty and staff is carried out at least once every 3 years in accordance with the Regulation on advanced training of the faculty and staff dated 12/28/2022. <https://kaztbu.edu.kz/ru/akkreditaciya-i-rejtingi>.

The need for teaching staff for the implementation of the EP is determined at the stage of development and revision of programs, taking into account the stated goals, areas and disciplines. An annual analysis of staffing is carried out, including the compliance of the current teaching staff with the qualification requirements of the legislation of the Republic of Kazakhstan and internal standards. Every year, the tender and contract commission checks the compliance of the teaching staff with the qualification requirements based on the Qualification Requirements for Teaching Staff Positions (order number No. 12-24-HK dated March 1, 2024).

To implement OP 6B05213 - "Ecology", 6B11230 "Life Safety and Environmental Protection", the Department of "Chemistry, Chemical Technology and Ecology" has a sufficient number of teachers, the total number of which is determined taking into account the number of disciplines, standards for the academic load, and the contingent of students. The staffing is given in Table 7.

Table 7-Staffing of the Department of KhTiE 2021-2025

PPS	2021-2022	2022-2023	2023-2024	2024-2025
Full-time employees	24	26	27	31
Doctor of Science	5	4	4	5
Candidate of Sciences	6	7	5	7
Doctor of Philosophy (PhD)	4	5	4	8
Master	8	10	13	10
Degree %	57.6	61.5	55.5	64.5

The university implements a policy aimed at supporting the professional development and career growth of the teaching staff, including young teachers. Teachers participate in advanced training programs, internships, scientific and educational projects. The management of the educational institution, together with the HR service, regularly determines the training needs of the teaching staff based on the results of individual development plans and surveys. The main areas of advanced training are pedagogical technologies, digitalization of education, development of research competencies and leadership. Thus, in the 2021-2022 academic year, 22 teachers underwent advanced training at the Department of Chemistry, Chemical Technology and Ecology, 31 in 2022-2023, and 21 in 2023-2024.

The procedure for attracting practitioners to teaching is formalized and is carried out through a competitive selection and direct agreements with employers. Specialists are involved in the educational process in the format of part-time work, invited lectures and participation in

examination committees. The share of practicing teachers in the implementation of the EP is 20%, which fully meets the objectives of the program to strengthen the applied focus of education. Thus, when implementing OP 6B05213 - "Ecology", the following practitioners were involved - teachers from LLP "Institute of Coal Chemistry and Technology" Kazangapova M.K., LLP "Eco-Analit" Zhylyanbaeva R.A., LLP "Ecology Business Consulting" Ramazanova G.S.

The university has implemented mechanisms for material and non-material incentives for the teaching staff, including bonuses for publication activity, participation in international projects and the introduction of innovative educational technologies. The criteria for assessing the activities of the teaching staff are transparent and approved at the university level: not only the teaching load is taken into account, but also participation in research, curatorial work and contribution to the development of the educational program (PD on the rating system for assessing the activities of the teaching staff, departments and faculties approved by the President - Rector of JSC "KazUTB named after K.Kulazhanov" S.Baybekov dated 02/29/024). Every year at the end of the academic year, the teaching staff of JSC "KazUTB named after K.Kulazhanov" participate in the rating according to the indicative plan of the teaching staff for the academic year, are assessed according to educational and methodological, scientific research, social and educational work and the level of professional qualifications of teachers. Based on the rating results, the teaching staff receives a salary supplement in the amount of 4, 6, 8, 10 and 12 MCI (Regulations on the procedure for applying the presidential-rector's supplement to employees JSC "KazUTB named after K.Kulazhanov", approved by the President - Rector of JSC "KazUTB named after K.Kulazhanov" S.Baybekov on 02/29/024)

The university's teachers receive financial support for publishing their own educational and methodological materials. The university annually organizes and finances participation of the faculty in international conferences, scientific internships and advanced training programs both in the near and far abroad (Table 8). Teachers who are actively involved in research activities and publish articles in highly rated journals receive additional material rewards. This confirms the existence of an effective system of incentives for the professional development of the faculty at the university.

Table 8 - Scientific publications of the department's teaching staff by educational program for the period 2021-2024.

Publications: with non-zero impact factor, etc.	2021/2022	2022/2023	2023/2024
OP 6B05213 - "Ecology"			
WoS, Scopus	8	9	14
RINTS			
KKSON	7	11	15
university journals and other publications of the Republic of Kazakhstan	11	20	41
Patents, AC	14	5	15
Textbooks, teaching aids	8	4	6
Monographs	1	2	
Total	49	51	91
OP 6B11230 – "Life safety and environmental protection"			
WoS, Scopus		3	6
RINTS	2		1
KKSON		2	21
university journals and other publications of the Republic of Kazakhstan	2	10	17
Patents, AC			4
Textbooks, teaching aids		1	3
Monographs			
Total	2	13	28

All teachers have the necessary IT competencies, which are regularly confirmed by completing advanced training courses. The use of digital simulators has been introduced into the educational process as part of the scientific project "Development of an advanced technology for conducting workings in outburst-hazardous coal seams based on analytical modeling of geomechanical processes in host rocks ("Zhas Galym" for 2022-2024)" implemented at the department. The university actively motivates the teaching staff to implement innovations through awards, support for project initiatives and providing access to modern digital solutions.

The university implements academic mobility programs and actively attracts leading foreign and domestic teachers. Agreements have been signed with universities and research centers in neighboring and distant countries. Thus, in order to develop academic mobility of the teaching staff in 2024-2025, N.S. Mamytova and M.K. Kazangapova completed international courses at Chongqing University (China) under the Silk Road program. N.S. Mamytova also completed an internship at Lomonosov Moscow State University (Russia) and received the Bolashak scholarship under the 500 Scientists program. M.K. Kazangapova completed an internship at the Stevens Institute of Technology (USA), the University of Santiago de Compostela (Spain) and an institute in Poland under a project for young scientists, and is also the recipient of the Bolashak scholarship. Invited foreign professors conducted courses and trainings, including Krachunov H. (Bulgaria) and Dmitrienko V.P. (Russia). On internal mobility of the teaching staff, a course was given by Akhmadiyanova G.K. at PSU named after Toraigyrov.

Each teacher takes part in promoting a culture of quality and academic integrity, including plagiarism prevention activities, participation in the work of ethics committees, and the introduction of open assessment practices. The assessment of the faculty's contribution to achieving the goals of the EP is carried out annually and is taken into account when forming individual plans and awarding bonuses. The best teachers at the end of the year are encouraged with letters of gratitude and bonuses.

The university's teachers actively participate in scientific, educational and public initiatives of the region and the country, including the development of industry development strategies, expert activities, participation in research projects commissioned by state and private structures. The following projects are being implemented at the Department of Chemistry, Chemical Technology and Ecology: Bitmanov E.Zh., research project for 2025-2027 "Monitoring the state of soil pollution in Central and Western Kazakhstan, development of measures to clean and reduce the content of heavy metals in the soil"; Suleimen E.M., "Isolation, establishment of the structure and antitumor activity of antibiotics from lichen fungi of the Akmola region" - republican competition "Grant financing of scientific and scientific-technical projects for 2023-2025; Shontayev A.D. Development of a progressive technology for conducting workings on outburst-hazardous coal seams based on analytical modeling of geomechanical processes in host rocks ("Zhas Galym" for 2022-2024)".

Analytical part

The activities of the Department of Chemistry, Chemical Technology and Ecology in the accredited educational programs generally correspond to the criteria of the standard. The teachers are aware of the change in their role in connection with the transition to student-centered learning. The teaching staff serving educational programs 6B05213 - Ecology, 6B11230 Life Safety and Environmental Protection make a significant contribution to the implementation of the university development strategy.

During the interview, the teaching staff confirmed that the university has created opportunities for career growth and professional development, and that active, targeted measures are being taken to attract and professionally develop young teachers. The university has an effective system of motivation for the teaching staff, including financial incentives for publications in top-rated journals, participation in research projects and advanced training. Teachers are also provided with ample opportunities for professional growth through internships, study abroad and participation in international programs, which stimulates their development and involvement in achieving the university's strategic goals.

The survey of the teaching staff conducted during the visit of the IAAR VEC showed that:

- the content of the educational program meets the scientific and professional interests and needs of the teaching staff, rated as very good by 78.5% (51 people) and good by 21.5% (14 people).
- the opportunities provided by the University for professional development of the teaching staff and career growth were rated as very good by 56.9% (37 people) and good by 41.5% (27 people).

Strengths/best practices for OP 7M07103 "Engineering of process equipment", 7M07301 "Theory and technology of designing buildings and structures"

An effective system of motivation for teachers, including both material and non-material incentives. Material motivation is implemented through a competitive system of remuneration, bonus payments for achievements in teaching, research and innovation activities. Non-material incentives include opportunities for professional growth, participation in international projects, support for scientific initiatives and the creation of a comfortable working environment.

Recommendations of the VEC for OP 7M07103 "Engineering of process equipment", 7M07301 "Theory and technology of designing buildings and structures"

Not developed

Conclusions of the VEK based on the criteria:

According to the "Students" standard: accredited educational programs OP 6B05213 – "Ecology", 6B11230 "Life Safety and Environmental Protection" have 1-strong, 9-satisfactory positions.

6.8. Standard "Educational resources and student support systems"

- ✓ The university must ensure that educational resources, including material and technical resources, and infrastructure comply with the goals of the educational program.
- ✓ The management of the OP must demonstrate the adequacy of classrooms, laboratories and other facilities equipped with modern equipment to ensure the achievement of the OP's goals.
- ✓ The university must demonstrate that information resources meet the needs of the university and the educational programs being implemented, including in the following areas:
 - ✓ technological support for students and teaching staff in accordance with educational programs (e.g. online learning, modeling, databases, data analysis programs);
 - ✓ library resources, including a collection of educational, methodological and scientific literature on general educational, basic and specialized disciplines on paper and electronic media, periodicals, access to scientific databases;
 - ✓ examination of research results, graduation theses, dissertations for plagiarism;
 - ✓ access to educational Internet resources;
- ✓ functioning of WI-FI on its territory.
- ✓ The university must demonstrate that it creates conditions for conducting scientific research, integrating science and education, and publishing the results of scientific research work by faculty, staff, and students.
- ✓ The university should strive to ensure that the educational equipment and software used for mastering educational programs are similar to those used in the relevant sectors of the economy.
- ✓ The leadership of the EP should demonstrate that there are procedures in place to support different groups of students, including information and consultation.
- ✓ The management of the educational institution must demonstrate the existence of conditions for the student's advancement along an individual educational trajectory.
- ✓ The university must take into account the needs of different groups of students (adults, working students, international students, as well as students with special educational needs).
- ✓ The university must ensure that its infrastructure meets safety requirements.

Evidential part

The university implements a system of comprehensive planning and evaluation of educational resources, material and technical base and infrastructure taking into account the goals of educational programs. The need for resources is determined through coordination with the heads of the educational programs, departments and departments, as well as taking into account feedback from students and teachers. When planning, the goals of the educational program, the competencies to be developed and the specifics of the professional activities of graduates are taken

into account.

The University has sufficient material, technical, information and library resources used to organize the process of teaching and educating students. The infrastructure of JSC "KazUTB named after K. Kulazhanov" includes 3 academic buildings: the first academic building with 65 classrooms for 2903 seats, 2 subscription rooms combined with reading rooms for 20 seats, 11 computer classes, 16 educational laboratories, a multimedia room, the second building is a sports hall of 864 m². The academic building is located at the address Kaiym Mukhamedzhanova, 37A (26615.6 m²). The classrooms are equipped with the necessary furniture, computer equipment, traditional and interactive boards, multimedia projectors, stands, sports equipment. The university has specialized classrooms, laboratories and scientific and educational centers equipped with modern equipment and technical teaching aids that fully ensure the achievement of the goals of the educational programs (Table 9).

Table 9 - Specialized classrooms and laboratories used in the implementation of the OP

Study rooms	Total area of premises (sq. m)	Number of seats	Logistics and technical support
OP 6B05213 - "Ecology"			
3/417 Special cabinet "Ecology"	61.9	34	KFK, thermostat, water bath, drying cabinet, desiccator, analytical scales, technical scales.
3/415 Laboratory and "Analytical and Physicollloid Chemistry"	62.0	28	Microscope, spectrophotometer, magnetic stirrer, analytical scale, technical scale, herbarium. Interactive whiteboard Projector
3/311 Laboratory "General and Inorganic Chemistry"	59.5	30	Flask heater LOIP LH 250, heater device water thermostat, drying cabinet Interactive board Projector
3/413 Laboratory "General Chemical Technology and Applied Mechanics"	59.6	32	Thermostat shaker, magnetic stirrer, thermostat, refractometer, Engler apparatus, photoelectric calorimeter, interactive board, projector
OP 6B11230 – "Life safety and environmental protection"			
3/315 Special office "Occupational Health and Safety and Health"	61.9	34	Projector, large stands, GM 63 vibration meter, AR813 lux meter, AITAIR Pro 02 gas analyzer, AR 814 sound level meter, multifunctional digital anemometer, TM1000 digital thermometer, UT 333 thermohygrometer, Gosha mannequin, OZK-shaped mannequin, fire suit mannequin, TOK 500-shaped mannequin, KZD-6 children's protective camera, interactive whiteboard, projector
3/313 Laboratory "Organic Chemistry"	65.1	30	Water bath SWB series, photoelectric colometer KFK-2, centrifuge OPN 8, analytical scales, ion meter I 160 MI, digital ultrasonic cleaner Interactive board, projector

In addition, when determining resource needs, special attention is paid to the availability and updating of professional practice databases that are consistent with the goals and objectives of the EP. Agreements have been concluded with specialized enterprises and organizations where students undergo industrial, pre-graduation and other types of practice. Partner organizations are selected taking into account the focus of the EP and professional competencies provided for by

educational standards.

The information resources of the university meet the needs of educational programs and the strategy of the university. Technological support for students and teaching staff is provided: distance learning systems are functioning, there are licensed databases and software packages for modeling and data analysis. Thus, in order to assist in providing access to domestic library collections, the ability to view, download and read, the following agreements are presented on the university website: Republican Interuniversity Electronic Library - agreement (No. 39 dated 01/05/2021) for the use of RMEB resources - a single database combining electronic resources of universities in Kazakhstan and the ability to use the resources of electronic libraries of other RMEB participants <http://www.rmeb.kz/>. Access is provided until December 31, 2025. Number of resources - 83967; Almaty Technological University (ATU) - cooperation agreement (No. 238 dated 06.09.2019) with Almaty Technological University <http://library.atu.kz/>. Access provided until December 31, 2025. Number of resources - 1300; Astana branch of the Republican Scientific and Technical Library <https://astana.rntb.kz>. Access provided until December 31, 2025. Book stock - 2,000,000 copies; information system "Platonus", which presents electronic versions of books of the library "KazUTB named after K. Kulazhanov": <http://45.8.118.88/template.html#/welcome>. Number of resources - 2900.

The library of JSC "KazUTB named after K.Kulazhanova" has an account on social networks:

- 1) «Instagram» - libkazutb;
- 2) "Instagram" - <https://instagram.com/kazutb.lib?igshid=ZDdkNTZiNTM>
- 3) "Facebook" <https://www.facebook.com/profile.php?id=100061342011613&mibextid=ZbW>

The library collection includes educational and scientific literature in printed and electronic format, with access to current scientific databases. The library collection of JSC "KazUTB named after K.Kulazhanov" is universal. It contains educational, educational and methodological, scientific, reference, fiction literature, periodicals and electronic publications. All literature available in the collection is reflected until 2009 in traditional card catalogs and since 2010 - in the electronic catalog, in the automated information system "Library Science"(table 10).

Table 10 - Book stock, including the stock of educational and scientific literature, and in terms of OP

No.	OP	Educational literature (singular)		Scientific literature (singular)		Per person training		
		in Kazakh	in Russian	in Kazakh	in Russian	in Kazakh	in Russian	Total
1	OP 6B05213 - "Ecology"	1202	4157	78	215	100	100	100
2	OP 6B11230 – "Life safety and environmental protection"	2053	6859	47	152	100	100	100
	TOTAL:	3255	11016	125	367	200	200	200

The website of JSC "KazUTB named after K.Kulazhanova" is functioning and has an official website <http://www.kaztbu.edu.kz/in> in Kazakh, Russian, English, which contains up-to-date information on the implemented educational programs, opportunities for academic mobility and scientific activities. User satisfaction with information resources is regularly assessed, and measures are taken to improve the quality and accessibility of information based on the results. The university has an IT Department, whose tasks include updating and maintaining computer networks, office equipment, developing software support, and providing technical support to departments. The Internet connection bandwidth is 500 Mbit/sec. Wi-Fi access points are available in all buildings.

A regular marketing analysis of the needs of economic sectors is conducted to determine the list of equipment and software used in educational programs. Based on the results of the analysis, applications for the purchase of equipment and software products are formed and approved. To implement the educational process under the program "Ecology", an application for the purchase of the software "ERA" was submitted, which includes the following components: ERA-UPRZA. Calculation of air pollution; ERA-NDV. Release of the NDV project; MapsLoader module - binding and loading maps from public Internet resources; ERA-Risks. Calculation of risks to public health; Software module for calculating emissions from various industries for Kazakhstan.

The examination of research results and master's theses for plagiarism is carried out using the StrikePlagiarism system (Service Agreement No. 252 dated February 23, 2022, Additional Agreement No. 3 to Agreement No. 252 dated February 25, 2025). Based on the results of the examination, a document is issued, a copy of which is stored at the department.

A procedure for identifying the needs of various groups of students, including international students, workers, adults and students with disabilities, has been developed and implemented. In order to create favorable conditions for students with special educational needs, the Inclusive Information and Resource Center was opened in 2021. It is located on the second floor of the main building of the library. The center is equipped with computers with Internet access and subscription databases. Some of the available databases have special services for inclusive education; a program has been installed that allows visually impaired and blind students to listen to and type texts. Based on the "Regulations on the provision of "Kulazhanov" benefits for tuition fees" by the decision of the Academic Council of JSC "KazUTB named after K. Kulazhanov" dated "29" 02 2024 No. 7, a system of discounts on educational services of higher and postgraduate professional education for students on a contractual basis is in effect. Discounts apply to students from socially vulnerable groups of the population and to talented youth.

Conditions have been created for the implementation of individual educational trajectories: flexible choice of disciplines, participation of advisers and tutors in supporting students, work of educational and methodological departments and the management of the educational program to provide information support to students. The academic counseling system helps students to build individual educational plans focused on career and scientific goals (IUP Aliyeva A.Zh., OP 6B05213 - "Ecology", course 1, approved by the Director of the Higher School/Faculty (Faculty of Technology) Zhunusova G.S. on 02/27/2024).

Analytical part

During the visual inspection of the material and technical base facilities by the members of the EEC, it was established that the university has sufficient educational and material resources to implement the educational process for the accredited educational programs. The auditorium fund, laboratories and classrooms comply with current standards and requirements. KazUTB has a fund of educational, methodological and scientific literature on general educational, basic and core disciplines, presented both in printed and electronic format. The funds are updated in accordance with the standards established by the qualification requirements for licensing.

The university operates a digital security video surveillance system consisting of 170 cameras. The university ensures that the infrastructure complies with established safety requirements, including sanitary standards and fire safety regulations.

At the same time, as a result of internal monitoring and visual inspection by the members of the EEC, it was revealed that the university infrastructure is not sufficiently adapted for students with special educational needs. In particular, not all academic buildings are equipped with specialized sanitary rooms, and barrier-free environment elements are not sufficiently developed: tactile paths and tactile indicators for visually impaired students.

During interviews with students and staff, it was also noted that the university's territory is insufficiently equipped with comfortable places for relaxation and informal communication, including modern co-working areas.

A survey of students conducted during the visit of the NAAR VEC showed that satisfaction:

- the availability of library resources is 84.5% (60 people);
- availability of computer classes – 81.7% (58 people);
- availability and quality of Internet resources – 78.9% (56 people).
- student lounges (if any) – 57.7% (41 people).

Strengths/best practices for OP 6B05213 – “Ecology”, 6B11230 “Life Safety and Environmental Protection”:

Not identified.

Recommendations of the VEC for OP 6B05213 - "Ecology", 6B11230 "Life Safety and Environmental Protection":

1. Before the start of the 2026-2027 academic year, the university management must bring the university infrastructure into full compliance with the requirements of an inclusive environment, ensuring accessibility for students with special needs by installing tactile paths and specialized sanitary facilities in all university buildings.

2. By the end of 2025, the university management will equip the university territory with additional recreation areas, create coworking spaces for comfortable study, work and leisure of students and employees.

Conclusions of the VEK based on the criteria:

According to the standard “Educational resources and student support systems”: accredited educational programs OP 6B05213 – “Ecology”, 6B11230 “Life safety and environmental protection” have 12 satisfactory positions, 1 position suggesting improvement.

6.9. Standard "Informing the Public"

- ✓ The university guarantees that the published information is accurate, objective, relevant and reflects all areas of the university's activities within the framework of the educational program.
 - ✓ Public awareness should include support and clarification of the country's national development programs and the system of higher and postgraduate education.
 - ✓ The university management should use a variety of methods of disseminating information (including the media, web resources, information networks, etc.) to inform the general public and interested parties.
 - ✓ Information about the educational program is objective, up-to-date and must include:
 - ✓ the purpose and planned results of the educational program, the qualification awarded;
 - ✓ information and the system for assessing the academic achievements of students;
 - ✓ information about academic mobility programs and other forms of cooperation with partner universities and employers;
 - ✓ information on opportunities for developing personal and professional competencies of students and employment;
 - ✓ data reflecting the positioning of the educational institution in the educational services market (at the regional, national, international levels);
 - ✓ An important factor is the publication of reliable information about the teaching staff, broken down by individuals, on open resources.
 - ✓ The university must post information and links to external resources based on the results of external assessment procedures.
- An important factor is the placement of information on cooperation and interaction with partners, including scientific/consulting organizations, business partners, social partners and educational organizations.

Evidential part

The university has developed and implemented an internal procedure for publishing information about its activities, including educational programs. The main provisions are set out in the "Regulations on the official information website of the university", approved by the President - Rector of JSC "KazUTB named after K.Kulazhanov" S.Baybekov on 29.02.024.

The main platforms for publishing information include: the official website of the university <https://www.kaztbu.edu.kz>; sections of the website of faculties and departments; university pages on social networks (Instagram <https://instagram.com/kazutb.lib?igshid=ZDdkNTZiNTM>, Facebook, Telegram, TikTok, YouTube); corporate and external media, including university newspapers and magazines (magazine "Vestnik" of KazUTB <https://vestnik.kaztbu.edu.kz/index.php/kazutb>). These platforms provide information about educational programs: program objectives, planned learning outcomes, awarded qualifications, list of teaching staff, description of the teaching methods used and assessment of academic achievements,

information about academic mobility programs, opportunities for further education and employment, data on the program's positioning in the educational services market at the national and international levels.

KazUTB displays on the web resource information characterizing the university as a whole and in terms of educational programs: information on the accredited educational programs "Ecology", 6B11230 "Life Safety and Environmental Protection" is presented on the pages of the Department of Chemistry, Chemical Technology and Ecology <https://www.kaztbu.edu.kz/ru/kafedra-himiya>: mission and history of the department, professional practice, EP, KED, RUP and development plans of the EP, material and technical equipment, teaching staff, scientific activities, graduates of the department.

The university systematically supports and explains national development programs for the country and the system of higher and postgraduate education. Information materials on programs and other strategic initiatives are posted on the university's website and in the media. Publications include articles, press releases and event announcements. The university participates in explanatory work on laws and regulations in the field of education, which is confirmed by the posting of thematic materials on the official pages (Digital Kazakhstan <https://www.kaztbu.edu.kz/ru/media/cifrovoj-kazahstan>).

The university policy provides for openness of information about the teaching staff. On the university website, in the department tab "Teaching Staff", information about the academic degree, work experience, main achievements and publications of teachers is posted, which ensures transparency of the human resources potential of the university <https://www.kaztbu.edu.kz/ru/kafedra-himiya>.

The University publishes the results of external assessment procedures (national and international accreditation) on the official website <https://www.kaztbu.edu.kz/ru/akkreditaciya-i-rejtingi>. Among the latest procedures is accreditation in the IAAR agency. Links to reports and certificates are available in the public domain.

Information on cooperation with partners (scientific and consulting organizations, business and social partners) <https://www.kaztbu.edu.kz/ru/partnery>, <https://www.kaztbu.edu.kz/ru/vuzy-partnery> is regularly published on the website and in corporate media. The structure of publications is regulated by internal regulations and includes a description of partnership projects and agreements.

Analytical part

An analysis of the information presented on the institute's website showed that KazUTB posts complete and reliable information about its activities, rules for admission of applicants, educational programs, terms and forms of study, contact and other information useful for applicants and students.

At the same time, experts noted that despite the presence of a list of partner universities on the university's website <https://www.kaztbu.edu.kz/ru/vuzy-partnery> for academic mobility, there is no detailed information on the implemented academic mobility programs, including the conditions of participation, deadlines and selection procedures. Also, there is no information and explanations for students and teaching staff on state programs and mechanisms for obtaining external grants, including international grant programs and scholarships (for example, Bolashak and other initiatives of the Ministry of Science and Higher Education of the Republic of Kazakhstan). The lack of such data reduces the level of awareness of target groups about the opportunities for participation in international educational projects and academic exchange programs.

A survey of students conducted during the visit of the NAAR VEC showed that satisfaction with the content and informational content of the website of educational organizations in general and faculties (schools) in particular was 85.9% (61 people).

Strengths/best practices for OP 6B05213 – “Ecology”, 6B11230 “Life Safety and Environmental Protection”:

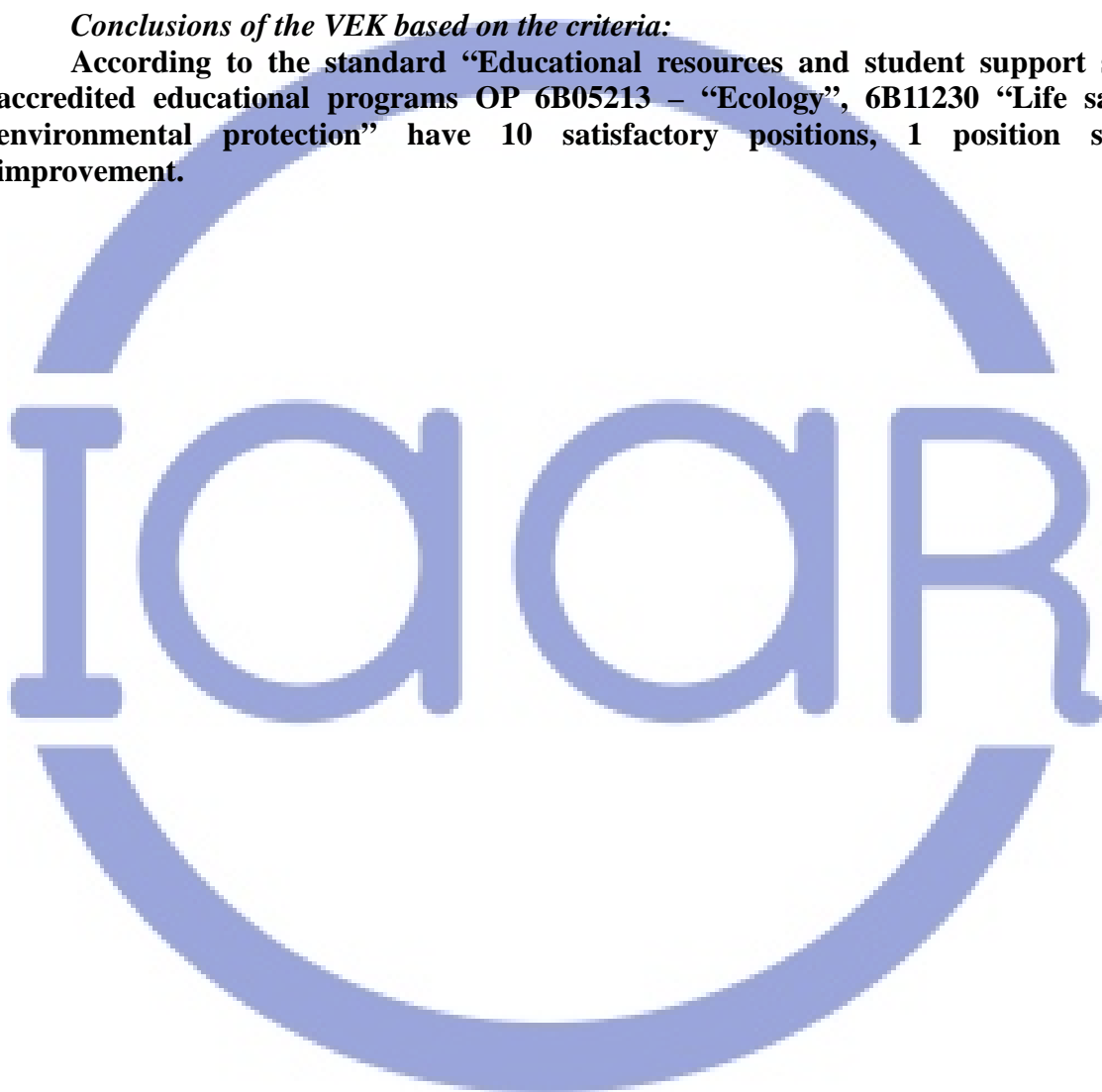
Not identified.

Recommendations of the VEC for OP 6B05213 - "Ecology", 6B11230 "Life Safety and Environmental Protection":

1. Before the start of the 2025-2026 academic year, the university management is recommended to post detailed information on the university's website about academic mobility programs, including a description of the procedures, selection criteria and conditions of participation, as well as to ensure the publication and regular updating of information on state and international external funding programs (grants, scholarships, etc.) with an explanation of the participation procedure for students and faculty.

Conclusions of the VEK based on the criteria:

According to the standard "Educational resources and student support systems": accredited educational programs OP 6B05213 – "Ecology", 6B11230 "Life safety and environmental protection" have 10 satisfactory positions, 1 position suggesting improvement.



(VII) OVERVIEW OF STRENGTHS/BEST PRACTICES FOR EACH STANDARD

According to the standard “Educational Program Management”:

Not found.

According to the Information Management and Reporting standard:

According to the standard “Development and approval of the educational program”:

Not found.

According to the standard “Continuous monitoring and periodic evaluation of educational programs”:

According to the standard “Student-centred learning, teaching and assessment of academic performance”:

Not found.

According to the standard "Students":

Not found.

According to the standard "Teaching staff":

An effective system of motivation for teachers, including both material and non-material incentives. Material motivation is implemented through a competitive system of remuneration, bonus payments for achievements in teaching, research and innovation activities. Non-material incentives include opportunities for professional growth, participation in international projects, support for scientific initiatives and the creation of a comfortable working environment.

According to the standard "Educational resources and student support systems":

Not found.

According to the “Public Information” standard:

Not found.

(VIII) OVERVIEW OF QUALITY IMPROVEMENT RECOMMENDATIONS FOR EACH STANDARD

Recommendations for OP 6B11230 Life safety and environmental protection, 6B05213 Ecology:

According to the standard “Educational Program Management”:

1. By the end of 2025, in order to improve management efficiency, the management of the Ecology and Life Safety and Environmental Protection OPs will undergo training in the management in education program.

According to the Information Management and Reporting standard:

1. By the end of 2025, the university management is recommended to ensure the implementation of the planned activities for the survey of teaching staff and to provide the results of the analysis as part of the reporting on the educational program.

According to the standard “Development and approval of the educational program”:

1. By the end of 2025, the university management must make changes to the university’s methodological documents, clearly regulating the requirements and procedures for selecting representatives of employers, faculty and other participants in the process of reviewing and developing the EP.

2. By the beginning of the 2025-2026 academic year, the leadership of the educational institution, in order to conduct professional certification of students, shall develop an action plan for students to complete courses in the context of professional activities within the framework of open educational platforms, and begin its implementation.

3. By the beginning of 2026-2027, the leadership of the EP shall ensure the practical implementation of double-degree or joint education programs with foreign partner universities in the areas of the EP cluster.

According to the standard “Continuous monitoring and periodic evaluation of educational programs”:

1. The responsible structural unit must promptly update the university website with current information on plans for the development and implementation of educational programs.

According to the standard “Student-centred learning, teaching and assessment of academic performance”:

1. Before the start of the 2025-2026 academic year, the university management develop and approve a formal procedure for responding to student complaints, including clear regulations for filing complaints; fixed deadlines for reviewing and informing students about decisions taken; identification of persons and departments responsible for reviewing complaints; a mechanism for appeals and independent assessment of the decision on the complaint; a system of regular monitoring and analysis of incoming requests and complaints.

According to the standard "Students":

1. Before the start of the 2025-2026 academic year, the EP management shall develop and approve an indicative plan for increasing the academic mobility of students and assistance in obtaining external grants for education, including at least 2 new agreements with foreign universities, and begin its implementation.

2. By the end of 2025, the university management should create a single regulated mechanism for monitoring the employment and professional activities of graduates, including regular analysis of the results with subsequent integration of the findings into the processes of reviewing and updating the EP.

3. By the end of 2025, the university management establish the University Alumni Association, develop and approve the Regulations on its activities with the mandatory inclusion of annual action plans and mechanisms for widely informing graduates through the website, social networks and other communication channels.

According to the standard "Teaching staff":

Not developed

According to the standard "Educational resources and student support systems":

1. Before the start of the 2026-2027 academic year, the university management must bring the university infrastructure into full compliance with the requirements of an inclusive environment, ensuring accessibility for students with special needs by installing tactile paths and specialized sanitary facilities in all university buildings.

2. By the end of 2025, the university management will equip the university territory with additional recreation areas, create coworking spaces for comfortable study, work and leisure of students and employees.

According to the "Public Information" standard:

1. Before the start of the 2025-2026 academic year, the university management is recommended to post detailed information on the university's website about academic mobility programs, including a description of the procedures, selection criteria and conditions of participation, as well as to ensure the publication and regular updating of information on state and international external funding programs (grants, scholarships, etc.) with an explanation of the participation procedure for students and faculty.



**(VIII) REVIEW OF RECOMMENDATIONS FOR THE DEVELOPMENT OF
EDUCATIONAL ORGANIZATION**

Not developed.



(IX) RECOMMENDATION TO THE ACCREDITATION COUNCIL

The members of the external expert commission came to a unanimous opinion that the educational programs implemented by JSC "Kazakh University of Technology and Business named after K.Kulazhanov" 6B11230 Life Safety and Environmental Protection, 6B05213 Ecology can be accredited for a period of 5 (five) years.



Appendix 1. Evaluation table “Conclusion of the external expert commission”

for OP 6B11230 Life safety and environmental protection, 6B05213 Ecology

p\p	p\p	Evaluation criteria	Position of the educational organization			
			Strong	Satisfy- telny	Suggests improvement	Dissatisfied telny
Standard ""Educational Program Management"						
1	1.	The university must demonstrate the development of a goal anddevelopment strategies of the OPbased on the analysis of external and internal factors with the broad involvement of various stakeholders		+		
2	2.	Quality assurance policies should reflect the relationship between research, teaching and learning		+		
3	3.	The university demonstrates the development of a quality assurance culture		+		
4	4.	Commitment to quality assurance should apply to all activities carried out by contractors and partners (outsourcing), including in the implementation of joint/dual degree education and academic mobility		+		
5	5.	The management of the EP ensures transparency in the development of the EP development plan based on an analysis of its functioning, the actual positioning of the university and the focus of its activities on meeting the needs of students, the state, employers and other interested parties.		+		
6	6.	The management of the educational program demonstrates the functioning of mechanisms for the formation and regular revision of the educational program development plan and monitoring of its implementation, assessment of the achievement of educational goals, compliance with the needs of students, employers and society, and decision-making aimed at continuous improvement of the educational program		+		
7	7.	The management of the educational institution must involve representatives of stakeholder groups, including employers, students and teaching staff, in the formation of the educational institution development plan.		+		
8	8.	The leadership of the OP must demonstrate individuality and uniqueness development plan of the educational institution, its consistency with national development priorities and the development strategy of the educational organization		+		
9	9.	The university must demonstrate a clear definition of those responsible for business processes within the EP, the distribution of job responsibilities of personnel, and the delineation of the functions of collegial bodies.		+		
10	10.	The OP management ensures coordination of the activities of all persons involved in the development and management of the OP and its continuous implementation, and also involves all interested persons in this process.		+		
11	11.	The management of the OP must ensure the transparency of the management system, the functioning of the internal quality assurance system, including its design, management and monitoring, and the adoption of appropriate decisions.		+		
12	12.	The management of the OP must implement risk management		+		

13	13.	ManagementThe EP must ensure the participation of representatives of interested parties (employers, teaching staff, students) in the collegial bodies managing the educational program, as well as their representativeness in decision-making on issues of managing the educational program.		+		
14	14.	The university must demonstrate innovation management within the framework of the EP, including the analysis and implementation of innovative proposals		+		
15	15.	The leadership of the educational institution must demonstrate its openness and accessibility to students, teaching staff, employers and other interested parties.		+		
16	16.	The management of the OP confirms completion of training in educational management programs			+	
17	17.	ManagementThe OP shall ensure that progress made since the last external quality assurance procedure is taken into account in preparation for the next procedure.		+		
Total by standard			0	16	1	0
Standard "Information Management and Reporting"						
18	1.	The university must ensure the functioning of a system for collecting, analyzing and managing information based on modern information and communication technologies and software		+		
19	2.	The OP management demonstrates the systematic use of processed, adequate information to improve the internal quality assurance system		+		
20	3.	The EP management demonstrates the existence of a reporting system reflecting the activities of all structural divisions and departments within the EP, including an assessment of their performance		+		
21	4.	The university must determine the frequency, forms and methods of assessing the management of the educational institution, the activities of collegial bodies and structural divisions, and senior management.		+		
22	5.	The university must demonstrate a mechanism for ensuring the protection of information, including the identification of persons responsible for the accuracy and timeliness of information analysis and the provision of data.		+		
23	6.	The university demonstrates the involvement of students, employees and faculty in the processes of collecting and analyzing information, as well as making decisions based on it		+		
24	7.	The leadership of the educational institution must demonstrate the existence of mechanisms for communication with students, employees and other stakeholders, including conflict resolution.		+		
25	8.	The university must ensure that the degree of satisfaction of the needs of students, faculty and staff within the framework of the EP is measured and demonstrate evidence of the elimination of identified deficiencies.		+		
26	9.	The university must evaluate the effectiveness and efficiency of activities in the context of the educational program		+		
<i>The information collected and analyzed by the university within the framework of the EP must take into account:</i>						
27	10.	Key performance indicators		+		
28	11.	dynamics of the student contingent in terms of forms and types		+		
29	12.	academic performance, student achievement and dropout		+		
30	13.	satisfaction of students with the implementation of the educational program and the quality of education at the university		+		
31	14.	availability of educational resources and support systems for learners		+		
32	15.	employment and career growth of graduates		+		

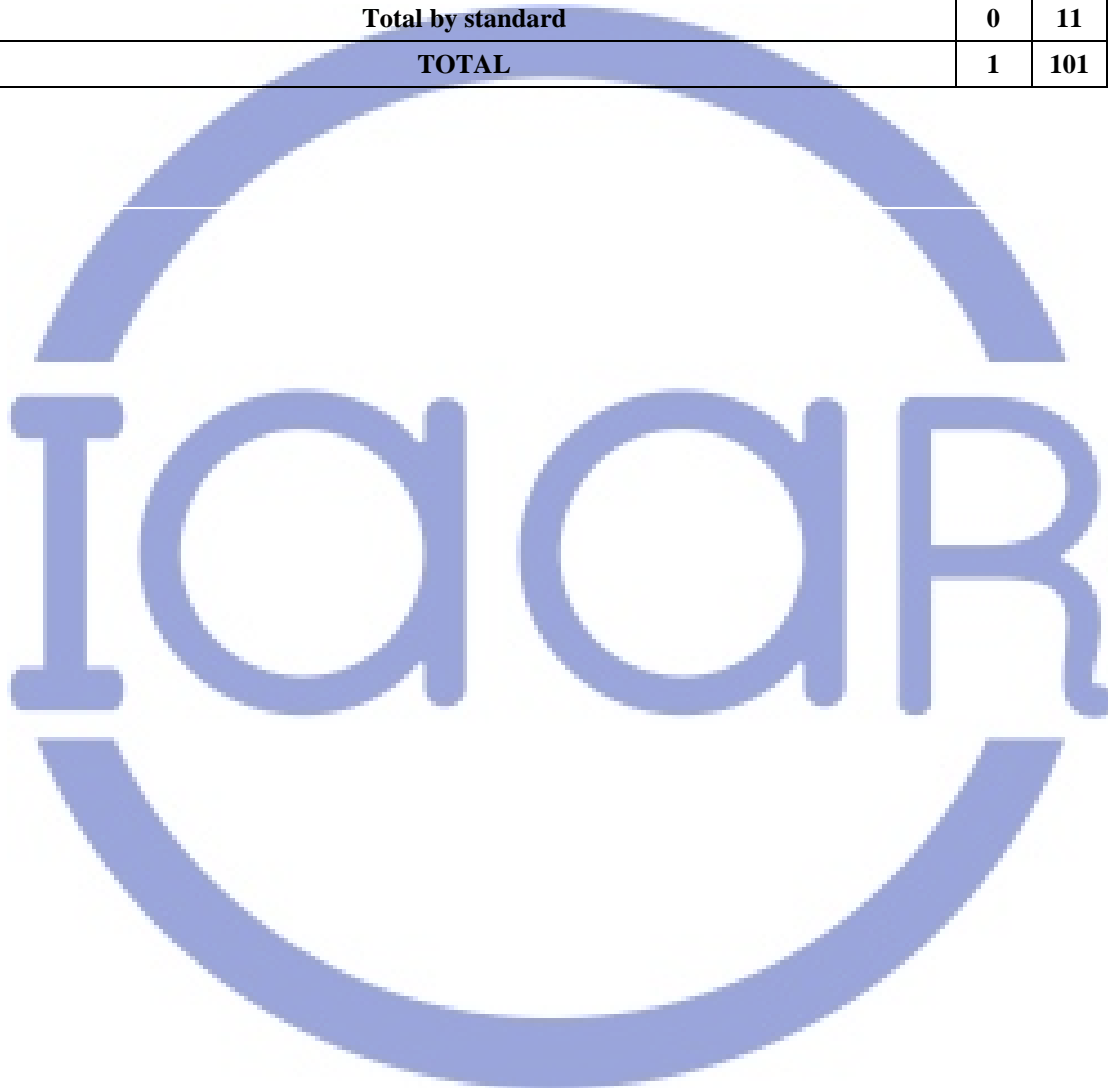
33	16.	Students, teaching staff and personnel must provide documentary evidence of their consent to the processing of personal data.		+		
34	17.	The management of the OP should facilitate the provision of necessary information in the relevant fields of science.		+		
Total by standard			0	17	0	0
Standard "Development and approval of the educational program"						
35	1.	The university must demonstrate the existence of a documented procedure for developing the EP and its approval at the institutional level.		+		
36	2.	The university must demonstrate the compliance of the developed educational program with the established goals and planned learning outcomes.		+		
37	3.	The leadership of the EP should determine the influence of disciplines and professional practices on the formation of learning outcomes		+		
38	4.	The university demonstrates the presence of a graduate model of the OP, describing the learning outcomes and personal qualities		+		
39	5.	The qualification awarded upon completion of the EP must be clearly defined, explained and correspond to a specified level of the NQF, QF-EHEA		+		
40	6.	The management of the EP should demonstrate the modular structure of the program based on ECTS, ensure that the structure of the content of the EP corresponds to the set goals with a focus on achieving the planned learning outcomes for each graduate		+		
41	7.	The management of the educational institution must ensure that the content of academic disciplines and learning outcomes correspond to each other and to the level of education (bachelor's, master's, doctoral)		+		
42	8.	The management of the OP must demonstrate that external examinations of the OP have been carried out.		+		
43	9.	The management of the EP must provide evidence of the participation of students, faculty and other stakeholders in the development and quality assurance of the EP		+		
44	10.	The management of the educational institution must demonstrate the uniqueness of the educational program, its positioning in the educational market (regional/national/international)		+		
45	11.	An important factor is the ability to prepare students for professional certification			+	
46	12.	An important factor is the presence of joint and/or double degree programs with foreign universities.			+	
Total by standard			0	10	2	0
Standard "Continuous monitoring and periodic evaluation of the educational program"						
47	1.	The university must ensure a revision of the structure and content of the educational program, taking into account changes in the labor market, employers' requirements and the social demands of society.		+		
48	2.	The university must demonstrate the existence of a documented procedure for monitoring and periodic evaluation to achieve the objectives of the EP and continuously improve the EP.		+		
<i>Monitoring and periodic evaluation of the OP should consider:</i>						
49	3.	the content of the program in the context of the latest achievements of science and technology in a specific discipline		+		
50	4.	changes in the needs of society and the professional environment		+		
51	5.	workload, academic performance and graduation of students		+		
52	6.	the effectiveness of student assessment procedures		+		
53	7.	needs and satisfaction of learners		+		

54	8.	compliance of the educational environment and the activities of support services with the objectives of the educational program		+		
55	9.	The management of the OP must publish information about changes to the OP, inform interested parties about any planned or undertaken actions within the OP.			+	
56	10.	Support services should identify the needs of different groups of learners and their level of satisfactionorganization of training, teaching, assessment, mastering the educational program as a whole		+		
Total by standard			0	9	1	0
Standard "Student-centered learning, teaching and assessment of academic performance"						
57	1.	The leadership of the educational institution must ensure respect and attention to different groups of students and their needs, providing them with flexible learning paths		+		
58	2.	The management of the educational program must ensure teaching based on modern achievements of world science and practice in the field of training, the use of various modern teaching methods and assessment of learning outcomes that ensure the achievement of the educational program goals, including competencies and skills for performing scientific work at the required level.		+		
59	3.	The management of the educational program must determine the mechanisms for distributing the students' academic workload between theory and practice within the educational program, ensuring that each graduate masters the content and achieves the educational program's goals.		+		
60	4.	An important factor is the presence of own research in the field of teaching methods of the OP disciplines		+		
61	5.	The university must ensure that the procedures for assessing learning outcomes correspond to the planned results and objectives of the educational program.		+		
62	6.	The university must ensure consistency, transparency and objectivity of the mechanism for assessing the learning outcomes of the EP, publication of criteria and methods for assessing learning outcomes in advance		+		
63	7.	Assessors must be proficient in modern methods of assessing learning outcomes and regularly improve their skills in this area.		+		
64	8.	The leadership of the EP must demonstrate the existence of a feedback system on the use of various teaching methods and assessment of learning outcomes		+		
65	9.	The leadership of the EP should demonstrate support for learner autonomy while providing guidance and assistance from the teacher.		+		
66	10.	The management of the educational institution must demonstrate the existence of a procedure for responding to student complaints.			+	
Total by standard			0	9	1	0
Standard "Students"						
67	1.	The university must demonstrate the policy for forming the contingent of students and ensure transparency and publication of procedures regulating the life cycle of students (from admission to completion)		+		
68	2.	The management of the OP should provide for the implementation of special adaptation and support programs for newly admitted and foreign students.		+		
69	3.	The university must demonstrate that its actions comply with the Lisbon Recognition Convention, including the existence and application of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and informal education.		+		
70	4.	The university must provide opportunities for external and internal academic mobility of students, as well as assist them in obtaining external grants for study.			+	

71	5.	The university should encourage students to self-education and development outside the main program (extracurricular activities)		+		
72	6.	An important factor is the presence of a mechanism to support gifted students		+		
73	7.	The institution must demonstrate cooperation with other educational organisations and national centres of the "European Network of National Information Centres on Academic Recognition and Mobility/National Academic Recognition Information Centres" ENIC/NARIC in order to ensure comparable recognition of qualifications		+		
74	8.	The university must provide students with internship places and demonstrate the procedure assisting graduates in finding employment and maintaining contact with them		+		
75	9.	The university must demonstrate the procedure for issuing graduates with documents confirming the qualifications they have received, including the learning outcomes they have achieved		+		
76	10.	The leadership of the OP must demonstrate that the program graduates have skills that are in demand in the labor market and that these skills are truly relevant.		+		
77	11.	The management of the OP must demonstrate the existence of a mechanism for monitoring the employment and professional activities of graduates			+	
78	12.	An important factor is the presence of an active alumni association/association			+	
Total by standard			0	9	3	0
Standard ""Teaching staff""						
79	1.	The university must have an objective and transparent personnel policy in the context of the educational program, including hiring (including invited faculty), professional growth and development of personnel, ensuring the professional competence of the entire staff.		+		
80	2.	The university must demonstrate that the quality of the teaching staff complies with the established qualification requirements, the university strategy, and the goals of the educational program.		+		
81	3.	The leadership of the EP must demonstrate the changing role of the teacher in connection with the transition to student-centred learning and teaching		+		
82	4.	The university should provide opportunities for career growth and professional development of teaching staff, including young teachers		+		
83	5.	The university must involve in teaching specialists from relevant fields who possess professional competencies that meet the requirements of the EP		+		
84	6.	The university must demonstrate the existence of a mechanism for motivating the professional and personal development of the teaching staff	+			
85	7.	The university must demonstrate the widespread use of teaching staff, information and communication technologies and software in the educational process (for example, on-line learning, e-portfolio, MOOCs, etc.)		+		
86	8.	The university must demonstrate its focus on developing academic mobility and attracting the best foreign and domestic teachers.		+		
87	9.	The university must demonstrate the involvement of each teacher in promoting a culture of quality and academic integrity in the university, determine the contribution of the teaching staff, including invited ones, to achieving the goals of the EP		+		
88	10.	An important factor is the involvement of the teaching staff in the development of the economy, education, science and culture of the region and the country.		+		
Total by standard			1	9	0	0
Standard "Educational Resources and Student Support Systems"						

89	1.	The university must guarantee that the infrastructure and educational resources, including material and technical resources, correspond to the goals of the educational program.		+		
90	2.	The OP management must demonstrate the adequacy of classrooms, laboratories and other facilities equipped with modern equipment to ensure the achievement of the OP's goals.		+		
<i>The university must demonstrate that information resources meet the needs of the university and the educational programs being implemented, including in the following areas:</i>						
91	3.	technological support for students and teaching staff in accordance with educational programs (e.g. online learning, modeling, databases, data analysis programs)		+		
92	4.	library resources, including a collection of educational, methodological and scientific literature on general education, basic and specialized disciplines on paper and electronic media, periodicals, access to scientific databases		+		
93	5.	examination of research results, graduation papers, dissertations for plagiarism		+		
94	6.	access to educational Internet resources		+		
95	7.	Wi-Fi operation on your territory		+		
96	8.	The university must demonstrate that it creates conditions for conducting scientific research, integrating science and education, and publishing the results of scientific research work by faculty, staff, and students.		+		
97	9.	The university should strive to ensure that the educational equipment and software used for mastering educational programs are similar to those used in the relevant sectors of the economy.		+		
98	10.	The management of the EP should demonstrate that there are procedures in place to support different groups of students, including information and consultation.		+		
99	11.	The management of the educational institution must demonstrate the existence of conditions for the student's advancement along an individual educational trajectory.		+		
100	12.	The university must take into account the needs of different groups of students (adults, working students, international students, as well as students with special educational needs)		+		
101	13.	The university must ensure that its infrastructure meets safety requirements			+	
Total by standard			0	12	1	0
Standard "Informing the Public"						
102	1.	The university guarantees that the published information is accurate, objective, relevant and reflects all areas of the university's activities within the framework of the educational program.		+		
103	2.	Public awareness should include support and clarification of national development programs for the country and the system of higher and postgraduate education		+		
104	3.	The university management should use a variety of methods of disseminating information (including the media, web resources, information networks, etc.) to inform the general public and interested parties.		+		
<i>Information about the educational program is objective, up-to-date and must include:</i>						
105	4.	the purpose and planned results of the educational program, the qualification awarded		+		
106	5.	information and the system of assessing the academic achievements of students		+		

107	6.	information on academic mobility programs and other forms of cooperation with partner universities and employers			+	
108	7.	information on opportunities for developing students' personal and professional competencies and employment		+		
109	8.	data reflecting the positioning of the educational institution in the educational services market (at the regional, national, international levels)		+		
110	9.	An important factor is the publication of reliable information on open resources about the PPS, broken down by individuals		+		
111	11.	The university must post information and links to external resources based on the results of external assessment procedures.		+		
112	12.	An important factor is the placement of information on cooperation and interaction with partners, including scientific/consulting organizations, business partners, social partners and educational organizations.		+		
Total by standard			0	11	1	0
TOTAL			1	101	10	0



Appendix 2. PROGRAM OF THE VISIT TO THE EDUCATIONAL ORGANIZATION



AGREED
Rector of JSC "Kazakh University"
Technology and Business named after K.Kulazhanov"
_____ **Baibolova L.K.**
«_____» _____ 2025

I APPROVE



«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТІҢ
ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ
ИУ «НЕЗАВИСИМОЕ АГЕНТСТВО
АККРЕДИТАЦИИ И РЕЙТИНГА»
INDEPENDENT AGENCY FOR
ACCREDITATION AND RATING

«_____» _____ 2025

General manager
"Independent Agency for
Accreditation and Rating"
_____ **Zhumagulova A.B.**

PROGRAM
VISIT OF THE EXTERNAL EXPERT COMMISSION OF THE INDEPENDENT AGENCY FOR ACCREDITATION AND RATING (IAAR) TO JSC "KAZAKH
UNIVERSITY OF TECHNOLOGY AND BUSINESS"
NAMED AFTER K. KULAZHANOV"
(international specialized accreditation)

Date of visit: March 12-14, 2025

***According to Astana city time**

Cluster 1	7M07188 Automation and control (primary accreditation)
Cluster 2	2)7M04144 State and local government 3)6B04103 Accounting and auditing 4)6B04107 State and local government
Cluster 3	5)6B11230 Life safety and environmental protection 6)6B05213 Ecology
Cluster 4	7)6B07223 Technology of processing industries (by industry) 8)6B07525 Standardization and certification (by industry) 9)6B07220 Technology of food products (by industry)
Cluster 5	10) 6B11127 Tourism 11) 6B11126 Restaurant and hotel business
Cluster 6	12) 6B11130 Sports tourism and excursion and recreational activities (primary accreditation)

Date and time	Work of the VEC with target groups	Surname, first name, patronymic and position of the target group participants	Venue, Contact form
March 10, 2025			
16.00-17.00	Preliminary meeting of the VEC	<i>IAAR External Experts</i>	Join a Zoom conference https://us02web.zoom.us/j/3892931765 Conference ID: 389 293 1765(<i>only for VEC</i>)
Day 1: March 12, 2025			
10.00-10.30	Distribution of responsibilities of experts, solution of organizational issues	<i>IAAR External Experts</i>	Block 1, 7th floor, Science Hall 1/700 Join a Zoom conference https://us02web.zoom.us/j/3892931765 Conference ID: 389 293 1765(<i>only for VEC</i>)
10.30-11.00	Meeting with the Rector	Baibolova Lyazzat Kemberbekovna - <i>Rector of JSC "Kazakh University of Technology and Business named after K.Kulazhanov"</i>	Block 1, 7th floor, Office 1/700 Join a Zoom conference https://us02web.zoom.us/j/3892931765 Conference ID: 389 293 1765
11.00-11.15	Technical break	<i>IAAR External Experts</i>	Block 1, 7th floor, Science Hall 1/700
11.15-12.00	Meeting with vice-rectors	1) Askarbekov Eric Birlikovich - <i>Vice-Rector for Academic and Methodological Work</i> 2) Aibuldinov Elaman Kanatovich - <i>Vice-Rector for Research and External Relations</i> 3) Berdigaliuly Sayat - <i>Vice-Rector for Educational and Social Work</i> 4) Zhanzakov Zhandarbek Saduevich - <i>Vice-Rector for Military and Civil Defense</i>	Block 1, 7th floor, Science Hall 1/700 Join a Zoom conference https://us02web.zoom.us/j/3892931765 Conference ID: 389 293 1765
12.00-12.15	Technical break	<i>IAAR External Experts</i>	Block 1, 7th floor, Science Hall 1/700
12.15-13.00	Meeting with heads of structural divisions	1) Bayuzakova Altynay Seksenadilovna - <i>legal support department</i> 2) Shagyrbay Meiramkul Amankyzy - <i>accounting and reporting department</i> 3) Bayadilova Bakyt Melisovna - <i>educational and methodological department</i>	Block 1, 7th floor, Science Hall 1/700 Join a Zoom conference

		4) Abdykarimova Safira Zaitbekovna - Department of International Relations and AM 5) Tleuova Aru Amankeldievna - Human Resources Department 6) Ospanova Madina Kapdrakhmanovna - editorial and publishing department 7) Yeshpanov Vladimir Sarsembaevich - Marketing Department of the Admissions Committee 8) Safuani Zhanar Yesenkulkyzy - office registrar 9) Aitmaganbetov Aset Laikovich - technical support and digitalization department 10) Oryntaeva Akbota Yedilovna - Department of educational and social work 11) Omarova Raushan Zhumazhanovna - Head of the Library 12) Orazbekov Erkebulan Erzhanovich - administrative and economic management 13) Abdinov Rauan Sharipbaevich - Department of Science and Commercialization 14) Abdykarimova Safira Zaitbekovna - Department of International Relations and Academic Mobility 15) Suleimen Erlan Malsuly - Technopark specialist	https://us02web.zoom.us/j/3892931765 Conference ID: 389 293 1765
13.00-14.00	Lunch break	<i>IAAR External Experts</i>	
14.00-14.50	Meeting with the deans	1) Mustafaev Kanat Seitkamalovich - Dean of the Faculty of Economics and Service 2) Zhunosova Gulzat Skendirovna - Dean of the Faculty of Technology.	Block 1, 7th floor, Science Hall 1/700 Join a Zoom conference https://us02web.zoom.us/j/3892931765 Conference ID: 389 293 1765
14.50-15.00	Work of the VEC	<i>IAAR External Experts</i>	Block 1, 7th floor, Science Hall 1/700 Join a Zoom conference https://us02web.zoom.us/j/3892931765 Conference ID: 389 293 1765(<i>only for VEC</i>)
15.00-15.50	Meeting with the heads of the OP	1) <i>Head of the Department of Information Technology</i> - Serimbetov Bulat Abutalibovich 2) <i>Head of the Department of Tourism and Service</i> - Zhunosova Aliya Anarkhanovna 3) <i>Head of the Department of Chemistry, Chemical Technology and Ecology</i> -Nurtaï Zhadyra Tastenbekkyzy 4) <i>Head of the Department of Technology and Standardization</i> - Baitukenova Saule Baydildaevna 5) <i>Head of the Department of Economics and Management</i> -Baktymbet Asem Serikkyzy 6) <i>Head of the Department of Finance and Accounting</i> - Mukushev Abzal Bazarbekovich	Block 1, 7th floor, Science Hall 1/700 Join a Zoom conference https://us02web.zoom.us/j/3892931765 Conference ID: 389 293 1765

15.50-16.00	Technical break	IAAR External Experts	Block 1, 7th floor, Science Hall 1/700 Join a Zoom conference https://us02web.zoom.us/j/3892931765 Conference ID: 389 293 1765
16.00-16.45	Meeting with the PPS	1 cluster (Appendix No. 1)	Offices / room No. 3/515 Join a Zoom conference https://us02web.zoom.us/j/3892931765 Conference ID: 389 293 1765
		2 cluster (Appendix No. 2) 3 cluster (Appendix No. 3) 4 cluster (Appendix No. 4) 5 cluster (Appendix No. 5) 6 cluster (Appendix No. 6)	Offices / room № 1/502 Join a Zoom conference https://us02web.zoom.us/j/9623882483 Conference ID: 962 388 2483
16.45-17.45	Questioning of teaching staff (in parallel)	Appendix 7(list with valid e-mails)	The link is sent to the teacher's email personally 5 minutes before the start of the survey.
16.45-18.00	Visual inspection of the OO	Appendix 8 (Route through clusters with responsible persons)	On the route Join a Zoom conference https://us02web.zoom.us/j/3892931765 Conference ID: 389 293 1765
18.00-18.30	Work of the VEC (discussion of results and summing up of day 1)	IAAR External Experts	Block 1, 7th floor, Science Hall 1/700 Join a Zoom conference https://us02web.zoom.us/j/3892931765 Conference ID: 389 293 1765
19.00-20.00	Dinner	IAAR External Experts	

Day 2: March 13, 2025

10.00-10.30	Work of the VEC (discussion of organizational issues)	<i>IAAR External Experts</i>	Block 1, 7th floor, Science Hall 1/700 Join a Zoom conference https://us02web.zoom.us/j/3892931765 Conference ID: 389 293 1765
10.30-11.10	Meeting with students	1 cluster (Appendix No. 9) 2 cluster (Appendix No. 10) 3 cluster (Appendix No. 11)	Offices / room No. 3/515 Join a Zoom conference https://us02web.zoom.us/j/3892931765 Conference ID: 389 293 1765
		4 cluster (Appendix No. 12) 5 cluster (Appendix No. 13) 6 cluster (Appendix No. 14)	Offices / room № 1/502 Join a Zoom conference https://us02web.zoom.us/j/9623882483 Conference ID: 962 388 2483
11.10-12.10	Survey of students (in parallel)	<i>Appendix No. 15 (list of current e-mails)</i>	<i>The link is sent to the student's email personally 5 minutes before the start of the survey.</i>
11.10-11.25	Technical break	<i>IAAR External Experts</i>	Block 1, 7th floor, Science Hall 1/700
11.25-13.00	Working with department documents (documents must be uploaded to the cloud by clusters in advance, if necessary, department heads will be invited to the online Zoom room) and attending faculty classes according to the schedule(Appendix 16)	4) <i>Head of the Department of Information Technology-</i> Serimbetov Bulat Abutalibovich 5) <i>Head of the Department of Tourism and Service -</i> Zhunusova Aliya Anarkhanovna 6) <i>Head of the Department of Chemistry, Chemical Technology and Ecology -</i> Nurtai Zhadyra Tastenbekkyzy 7) <i>Head of the Department of Technology and Standardization-</i> Baitukenova Saule Baydildaevna 8) <i>Head of the Department of Economics and Management -</i> Baktymbet Asem Serikkyzy 9) <i>Head of the Department of Finance and Accounting -</i> Mukushev Abzal Bazarbekovich	Block 1, 7th floor, Science Hall 1/700 Join a Zoom conference https://us02web.zoom.us/j/3892931765 Conference ID: 389 293 1765
13.00-14.00	Lunch break	<i>IAAR External Experts</i>	

14.00-14.30	Work of the VEC (exchange of opinions)	<i>IAAR External Experts</i>	Block 1, 7th floor, Science Hall 1/700 Join a Zoom conference https://us02web.zoom.us/j/3892931765 Conference ID: 389 293 1765
14.30-15.20	Visiting the practice bases of the OP (in parallel across clusters)	<i>Appendix No. 17 (route by clusters)</i>	On the route
15.30-15.40	Technical break	<i>IAAR External Experts</i>	Block 1, 7th floor, Science Hall 1/700
15.40-16.20	Meeting with employers of the OP	<i>Appendix No. 18 (list for each cluster)</i>	Block 1, 7th floor, Science Hall 1/700 <i>Office / room No. 3/515, 1/502</i> Join a Zoom conference https://us02web.zoom.us/j/3892931765 Conference ID: 389 293 1765
16.20-16.30	Technical break	<i>IAAR External Experts</i>	Block 1, 7th floor, Science Hall 1/700
16.30-17.15	Meeting with graduates	<i>Appendix No. 19 (list for each cluster)</i>	Block 1, 7th floor, Science Hall 1/700 <i>Office / room No. 3/515, 1/502</i> Join a Zoom conference https://us02web.zoom.us/j/3892931765 Conference ID: 389 293 1765
17.10-19.00	Work of the VEC, discussion of the results of the second day and profile parameters (recording is in progress)	<i>IAAR External Experts</i>	Block 1, 7th floor, Science Hall 1/700 Join a Zoom conference https://us02web.zoom.us/j/3892931765 Conference ID: 389 293 1765
19.00-20.00	Dinner	<i>IAAR External Experts</i>	

Day 3: March 14, 2025			
10.00-11.30	Work of the VEK (development and discussion of recommendations) (recording is in progress)	<i>IAAR External Experts</i>	Block 1, 7th floor, Science Hall 1/700 Join a Zoom conference https://us02web.zoom.us/j/3892931765 Conference ID: 389 293 1765
11.30-11.40	Technical break	<i>IAAR External Experts</i>	Block 1, 7th floor, Science Hall 1/700
11.40-13.00	Work of the VEC, development and discussion of recommendations	<i>IAAR External Experts</i>	Block 1, 7th floor, Science Hall 1/700 <i>(Individual work of an expert offline)</i>
13.00-14.00	Lunch break	<i>IAAR External Experts</i>	
14.00-16.15	Work of the VEC, discussion, decision-making by voting (recording in progress)	<i>IAAR External Experts</i>	Block 1, 7th floor, Science Hall 1/700 Join a Zoom conference https://us02web.zoom.us/j/3892931765 Conference ID: 389 293 1765
16.15-16.30	Technical break	<i>IAAR External Experts</i>	Block 1, 7th floor, Science Hall 1/700
16.30-17.00	Final meeting of the VEC with the university management	<i>Heads of the university and structural divisions</i>	Block 1, 7th floor, Science Hall 1/700 Join a Zoom conference https://us02web.zoom.us/j/3892931765 Conference ID: 389 293 1765
18.00-19.00	Dinner	<i>IAAR External Experts</i>	

Appendix 3. RESULTS OF THE TEACHER STAFF SURVEY

Results of an anonymous survey of the teaching staff

Kazakh University of Technology and Business named after K.Kulazhanov (KazUTB)

1. Total number of questionnaires: 65

2. Your department:

Faculty "Economy and Service»	37	56.9%
Faculty "Applied sciences»	28	43.1%

3. Position

Professor	10	15.4%
Associate Professor	22	33.8%
Aga Okytushy (Senior Lecturer)	25	38.5%
Okytushy (Teacher)	4	6.2%
Head of Department	2	3.1%
Associate Professor	1	1.5%
Assistant Professor	1	1.5%

4. Academic degree, academic title

Honored Worker of the Republic of Kazakhstan)	0 people	0%
Doctor of Science	4 people	6.2%
PhD	17 people.	26.2%
Master	27 people.	41.5%
PhD	13 people.	20%
Professor	4 people	6.2%
Associate Professor	2 people	3.1%
No	2 people	3.1%
DBA	0 people	0%

5. Work experience

Less than 1 year	10 people.	15.4%
1 year – 5 years	27 people.	41.5%
Over 5 years	28 people.	43.1%

No.	Questions	Very good	Fine	Relatively bad	Badly	Very bad	Didn't answer
6	To what extent does the content of the educational program meet your scientific and professional interests and needs?	51 people. (78.5%)	14 people. (21.5%)	0 people (0%)	0 people (0%)	0 people (0%)	-
7	How do you rate the opportunities provided by the University for the professional development of the teaching staff?	37 people. (56.9%)	27 people. (41.5%)	1 person (1.5%)	0 people (0%)	0 people (0%)	-
8	How do you rate the opportunities provided by the University for career growth of the teaching staff?	27 people. (41.5%)	36 people. (55.4%)	2 people (3.1%)	0 people (0%)	0 people (0%)	-
9	How do you rate the degree of academic freedom of the teaching staff?	24 people. (36.9%)	37 people. (56.9%)	3 people (4.6%)	1 person (1.5%)	0 people (0%)	-
	To what extent can teachers use their own						
10	• Strategies	32 people. (49.2%)	31 people. (47.7%)	2 people (3.1%)	0 people (0%)	0 people (0%)	-
11	• Methods	41 people. (63.1%)	24 people. (36.9%)	0 people (0%)	0 people (0%)	0 people (0%)	-
12	• Innovations in the learning process	40 people. (61.5%)	25 people. (38.5%)	0 people (0%)	0 people (0%)	0 people (0%)	-
13	How do you rate the work on organizing medical care	22	37	5	1 person	0 people	-

	and disease prevention at the university?	people. (33.8%)	people. (56.9%)	people. (7.7%)	(1.5%)	(0%)	
14	How much attention does the management of the educational institution pay to the content of the educational program?	46 people. (70.8%)	18 people. (27.7%)	1 person (1.5%)	0 people (0%)	0 people (0%)	-
15	How do you rate the sufficiency and availability of necessary scientific and educational literature in the library?	36 people. (55.4%)	31 people. (47.7%)	3 people (4.6%)	0 people (0%)	0 people (0%)	-
16	Assess the level of conditions created that take into account the needs of different groups of students	36 people. (55.4%)	29 people. (44.6%)	0 people (0%)	0 people (0%)	0 people (0%)	-
Rate the accessibility of the manual							
17	• For students	38 people. (58.5%)	26 people. (40%)	1 person (1.5%)	0 people (0%)	0 people (0%)	-
18	• For teachers	41 people. (63.1%)	21 people. (32.3%)	3 people (4.6%)	0 people (0%)	0 people (0%)	-
19	Assess the involvement of the faculty in the process of making management and strategic decisions	25 people. (38.5%)	37 people. (56.9%)	3 people (4.6%)	0 people (0%)	0 people (0%)	-
20	How is innovative activity of teaching staff encouraged?	27 people. (41.5%)	33 people. (50.8%)	4 people (6.2%)	0 people (0%)	1 person (1.5%)	-
21	Assess the level of feedback from the teaching staff to the management	33 people. (50.8%)	30 people. (46.2%)	1 person (1.5%)	1 person (1.5%)	0 people (0%)	-
22	What is the level of stimulation and involvement of young specialists in the educational process?	25 people. (38.5%)	36 people. (55.4%)	3 people (4.6%)	1 person (1.5%)	0 people (0%)	-
23	Assess the opportunities created for professional and personal growth for each teacher and staff member	31 people. (47.7%)	30 people. (46.2%)	3 people (4.6%)	1 person (1.5%)	0 people (0%)	-
24	Assess the adequacy of recognition of the potential and abilities of teachers	29 people. (44.6%)	35 people. (53.8%)	1 person (1.5%)	0 people (0%)	0 people (0%)	-
How the work is organized							
25	• On academic mobility	32 people. (49.2%)	29 people. (44.6%)	4 people (6.2%)	0 people (0%)	0 people (0%)	-
26	• To improve the qualifications of teaching staff	45 people. (69.2%)	19 people. (29.2%)	1 person (1.5%)	0 people (0%)	0 people (0%)	-
Rate the support of the university and its management							
27	• Research and development initiatives of the PPS	31 people. (47.7%)	32 people. (49.2%)	1 person (1.5%)	1 person (1.5%)	0 people (0%)	-
28	• Development of new educational programs/disciplines/methods	42 people. (64.6%)	21 people. (32.3%)	2 people (3.1%)	0 people (0%)	0 people (0%)	-
Assess the level of ability of the teaching staff to combine teaching							
29	• With scientific research	26 people. (40%)	34 people. (52.3%)	3 people (4.6%)	2 people (3.1%)	0 people (0%)	-
30	• With practical activities	25 people. (38.5%)	32 people. (49.2%)	7 people. (10.8%)	0 people (0%)	1 person (1.5%)	-
31	Assess to what extent the knowledge students receive at this university corresponds to the realities of the requirements of the modern labor market	29 people. (44.6%)	34 people. (52.3%)	2 people (3.1%)	0 people (0%)	0 people (0%)	-
32	How do the university management and administration perceive criticism directed at them?	11 people. (16.9%)	52 people. (80%)	1 person (1.5%)	0 people (0%)	1 person (1.5%)	-

33	Assess how well your academic workload matches your expectations and capabilities	28 people. (43.1%)	34 people. (52.3%)	2 people (3.1%)	1 person (1.5%)	0 people (0%)	-
34	Assess the focus of educational programs/curriculums on developing students' skills and abilities to analyze situations and make forecasts	29 people. (44.6%)	36 people. (55.4%)	0 people (0%)	0 people (0%)	0 people (0%)	-
35	Assess to what extent the educational program in terms of content and quality of implementation meets the expectations of the labor market and employers	32 people. (49.2%)	33 people. (50.8%)	0 people (0%)	0 people (0%)	0 people (0%)	-

36. Why do you work at this particular university?

I like this university.

The university's image is high. The incentive measures are very high.

My specialty

BY PROFESSION

I like the processes of innovation and innovation

BY PROFESSION

Working conditions, team

I am impressed by the spiritual and professional potential of my colleagues

Kazutb has developed a social network. Responsibility and sustainable development.

like

Relatively higher salary than in other universities

I've been working for a long time, the team is good

The salary is higher than other universities

Friendly atmosphere at the department, active scientific and pedagogical activity

The only university in the capital that trains specialists in mining

I work at this university because favorable conditions have been created here for teaching and research, and there are opportunities for professional growth.

The salary

Salary

Like

There is a possibility of scientific potential growth

and I get full satisfaction from my work.

A good team

According to my current requirements

I like working here

Having knowledge and experience to pass on to young people

A comfortable climate and great opportunities for further growth

A good team

It is convenient to combine work and science. Good PO, motivation is welcome

An important factor is that the university supports work in scientific projects and research.

Like,

Higher wages

I got a job by chance, I like the attitude of the teaching staff at the Department.

I really like this University, the high salary, the attitude towards teaching staff

Educational programs are interesting in the specialty

It provides many opportunities for professional growth

According to the place of residence

A promising university with all the opportunities for professional development and the development of educational programs.

There are many advantages of this University

Because we have a friendly team and a good academic aura.

This is my comfort zone.

Work related to the field of Ecology

At the moment, the university gives me all the opportunities for growth and development.

I'm studying at another university.

This is because it creates favorable conditions for the worker and the salary is high

The conditions for teachers are created

Because I really like the K. Kulazhanov Kazakh University of technology and business in all respects

I like this university, first of all, the staff of the university is focused on education and upbringing, there is a high level of culture among teachers and students, moral qualities and organization. In my pedagogical activity, I worked at only two universities. I came from Almaty with a family background from the National University and got a job at this university. I really like the University in all respects!

The salary is good, the atmosphere is friendly

Growth prospects, salary, warm team

I like the working conditions.

Because the relationship and salary are good

There are many opportunities for research and development, as well as good career prospects, and sufficient pay.

Favorite job

I really love my profession and children. I want them to be qualifications and requirements.

I like KazUTB

37. How often do your course include master classes and readings with the participation of practicing specialists?

Very often	17 people.	26.2%
Often	32 people.	49.2%
Sometimes	14 people.	21.5%
Very rare	1 person	1.5%
Never	1 person	1.5%

38. How often do invited teachers (domestic and foreign) participate in the teaching process?

Very often	12 people.	18.5%
Often	34 people.	52.3%
Sometimes	17 people.	26.2%
Very rare	2 people	3.1%
Never	0 people	0%

39. How often do you encounter the following problems in your work: (please provide an answer in each line)

	Often	Sometimes	Never	No answer
Lack of classrooms	2 people 3.1%	25 people. (38.5%)	38 people. (58.5%)	-
Unbalanced academic workload across semesters	4 people 6.2%	24 people. (36.9%)	37 people. (56.9%)	-
Unavailability of necessary literature in the library	1 person 1.5%	23 people. (35.4%)	41 people. (63.1%)	-
Overcrowded study groups (too many students in a group)	1 person 1.5%	15 people. (23.1%)	49 people. (75.4%)	-
Inconvenient schedule	3 people 4.6%	20 people. (30.8%)	42 people. (64.6%)	-
Inadequate conditions for classroom study		19 people. 29.7%	45 people. (70.3%)	-
No internet access/weak internet	5 people. 7.7%	20 people. (30.8%)	40 people. (61.5%)	-
Lack of interest in learning among students	1 person 1.5%	28 people. (43.1%)	36 people. (55.4%)	-
Late receipt of information about events	3 people 4.6%	11 people. (16.9%)	51 people. (78.5%)	-
Lack of technical equipment in classrooms	2 people 3.1%	24 people. (36.9%)	39 people. (60%)	-
Other problems	Mesele Zhok No Meseleler zhok NO Systematic and annual updating of modern educational and scientific material base All the problems are listed above Act of the hall Hours srsp, srs not taken into account I don't see it yet Zhok I had no problems Meseleler zhok Stinging wasps bekitilgen zhuktemege saikes 350000-400000 tenge aolygyna zhetkizse, zhaksy bolar food. Arasynda syaki berse zhaksy bolar edi. There are no problems Master's programs need to be opened No Everything matches There are no problems Zhok			

	<p>Open class often asks to conduct although during the competition we conduct</p> <p>Baska masele zhok</p> <p>Baska masele zhok</p> <p>Baska maseleler bolgan zhok</p> <p>No problem</p> <p>It's stressful to go through the competitive selection of teaching staff every year</p> <p>masele zhok</p> <p>there are no significant problems</p>
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40. There are many different sides and aspects to the life of a university that affect each teacher and employee in one way or another. Rate how satisfied you are with:

Question	Completely satisfied	Partially satisfied	Not satisfied	I find it difficult to answer
The attitude of the university management towards you	50 people. (76.9%)	14 people. (21.5%)	0 people (0%)	1 person (1.5%)
Relationships with immediate management	50 people. (76.9%)	14 people. (21.5%)	1 person (1.5%)	0 people (0%)
Relationships with colleagues in the department	58 people. (89.2%)	7 people. (10.8%)	0 people (0%)	0 people (0%)
Participation in management decision-making	43 people. (66.2%)	21 people. (32.3%)	1 person (1.5%)	0 people (0%)
Relations with students	60 people. (92.3%)	5 people. (7.7%)	0 people (0%)	0 people (0%)
Recognition of your successes and achievements by the administration	45 people. (69.2%)	16 people. (24.6%)	1 person (1.5%)	3 people (4.6%)
Support for your suggestions and comments	46 people. (70.8%)	17 people. (26.2%)	1 person (1.5%)	1 person (1.5%)
Activities of the university administration	53 people. (81.5%)	12 people. (18.5%)	0 people (0%)	0 people (0%)
Terms of remuneration	43 people. (66.2%)	21 people. (32.3%)	1 person (1.5%)	0 people (0%)
Working conditions, list and quality of services provided at the university	49 people. (75.4%)	16 people. (24.6%)	0 people (0%)	0 people (0%)
Occupational health and safety	57 people. (87.7%)	7 people. (10.8%)	1 person (1.5%)	0 people (0%)
Managing changes in the activities of the university	49 people. (75.4%)	16 people. (24.6%)	0 people (0%)	0 people (0%)
Provision of a social package: rest, spa treatment, etc.	23 people. (35.4%)	23 people. (35.4%)	13 people. (20%)	6 people. (9.2%)
Organization and quality of food at the university	39 people. (60%)	18 people. (27.7%)	5 people. (7.7%)	3 people (4.6%)
Organization and quality of medical care	41 people. (63.1%)	16 people. (24.6%)	3 people (4.6%)	5 people. (7.7%)

Appendix 4. RESULTS OF THE STUDENT SURVEY

Results of anonymous student survey K.Kulazhanov Kazakh University of Technology and Business (KazUTB)

Total number of questionnaires: 71

1. Your educational program?

7M07188 Automation and control	0	0
7M04144 State and local government	13	18.3%
6B04103 Accounting and auditing	0	0
6B04107 State and local government	7	9.9%
6B11230 Life safety and environmental protection	0	0
6B05213 Ecology	0	0
6B07223 Technology of processing industries (by industry)	5	7%
6B07525 Standardization and certification (by industry)	16	22.5%
6B07220 Food Technology (by industry)	1	1.4%
6B11127 Tourism	8	11.3%
6B11126 Restaurant and hotel business	18	25.4%
6B11130 Sports tourism and excursion and recreational activities	2	2.8%
Economy and service	1	1.4%

2. Gender

male	46 people.	64.8%
female	25 people.	35.2%

3 Evaluate how satisfied you are with the following situations: (Rate how satisfied you are:)

Questions	Completely satisfied	Partially satisfied	Partially dissatisfied	Not satisfied	I'm having trouble answer
4. Relations with the dean's office	58 people (81.7%)	12 people (16.9%)	1 person (1.4%)	0 people (0%)	0 people (0%)
5. Level of accessibility of the dean's office	62 people (87.3%)	6 people (8.5%)	2 people (2.8%)	1 person (1.4%)	0 people (0%)
6. The level of accessibility and responsiveness of the university management	60 people (84.5%)	7 people (9.9%)	4 people (5.6%)	0 people (0%)	0 people (0%)
7. Making academic advising available to you	59 people (83.1%)	9 people (12.7%)	2 people (2.8%)	0 people (0%)	1 person (1.4%)
8. Support with educational materials during the learning process	63 people (88.7%)	7 people (9.9%)	0 people (0%)	0 people (0%)	1 person (1.4%)
9. Availability of consultations on personal problems	60 people (84.5%)	9 people (12.7%)	1 person (1.4%)	0 people (0%)	1 person (1.4%)
10. Relationships between student and teacher	57 people (80.3%)	12 people (16.9%)	1 person (1.4%)	0 people (0%)	1 person (1.4%)
11. Financial and administrative services of the educational institution	55 people (77.5%)	14 people (19.7%)	1 person (1.4%)	0 people (0%)	1 person (1.4%)
12. Availability of health services	54 people (76.1%)	13 people (18.3%)	1 person (1.4%)	1 person (1.4%)	2 people (2.8%)
13. Quality of medical care at the university	56 people (78.9%)	11 people (15.5%)	0 people (0%)	0 people (0%)	4 people (5.6%)
14. The level of availability of library resources	60 people (84.5%)	7 people (9.9%)	2 people (2.8%)	1 person (1.4%)	1 person (1.4%)
15. The quality of services provided in libraries and reading rooms	62 people (87.3%)	7 people (9.9%)	0 people (0%)	1 person (1.4%)	1 person (1.4%)

Questions	Completely satisfied	Partially satisfied	Partially dissatisfied	Not satisfied	I'm having trouble answer
16. Satisfaction with the existing educational resources of the university	58 people (81.7%)	12 people (16.9%)	0 people (0%)	1 person (1.4%)	0 people (0%)
17. Availability of computer classes	58 people (81.7%)	10 people (14.1%)	0 people (0%)	3 people (4.2%)	0 people (0%)
18. Availability and quality of Internet resources	56 people (78.9%)	12 people (16.9%)	2 people (2.8%)	1 person (1.4%)	0 people (0%)
19. The content and informational content of the website of educational organizations in general and faculties (schools) in particular	61 people (85.9%)	8 people (11.3%)	2 people (2.8%)	0 people (0%)	0 people (0%)
20. Classrooms, auditoriums for large groups	53 people (74.6%)	12 people (16.9%)	6 people (8.5%)	0 people (0%)	0 people (0%)
21. Student lounges (if any)	41 people (57.7%)	13 people (18.3%)	9 people (12.7%)	4 people (5.6%)	4 people (5.6%)
22. Clarity of the procedure for taking disciplinary action	58 people (81.7%)	10 people (14.1%)	0 people (0%)	0 people (0%)	3 people (4.2%)
23. The quality of the educational program as a whole	58 people (81.7%)	13 people (18.3%)	0 people (0%)	0 people (0%)	0 people (0%)
24. The quality of the educational programs in the OP	58 people (81.7%)	11 people (15.5%)	1 person (1.4%)	0 people (0%)	1 person (1.4%)
25. Teaching methods in general	60 people (84.5%)	11 people (15.5%)	0 people (0%)	0 people (0%)	0 people (0%)
26. Quick response to feedback from teachers regarding the educational process	58 people (81.7%)	12 people (16.9%)	1 person (1.4%)	0 people (0%)	0 people (0%)
27. The quality of teaching in general	61 people (85.9%)	10 people (14.1%)	0 people (0%)	0 people (0%)	0 people (0%)
28. Academic workload/demands for the student	56 people (78.9%)	12 people (16.9%)	2 people (2.8%)	1 person (1.4%)	0 people (0%)
29. Requirements of the teaching staff for students	54 people (76.1%)	14 people (19.7%)	1 person (1.4%)	1 person (1.4%)	1 person (1.4%)
30. Information support and explanation of admission rules and strategy of the educational program (specialty) before entering the university	57 people (80.3%)	13 people (18.3%)	0 people (0%)	1 person (1.4%)	0 people (0%)
31. Informing the requirements for successful completion of a given educational program (specialty)	61 people (85.9%)	9 people (12.7%)	1 person (1.4%)	0 people (0%)	0 people (0%)
32. The quality of examination materials (tests and examination questions, etc.)	62 people (87.3%)	9 people (12.7%)	0 people (0%)	0 people (0%)	0 people (0%)
33. Objectivity in assessing knowledge, skills and other academic achievements	58 people (81.7%)	13 people (18.3%)	0 people (0%)	0 people (0%)	0 people (0%)
34. Available computer classes	57 people (80.3%)	11 people (15.5%)	0 people (0%)	1 person (1.4%)	2 people (2.8%)
35. Available scientific laboratories	55 people (77.5%)	11 people (15.5%)	0 people (0%)	1 person (1.4%)	4 people (5.6%)

Questions	Completely satisfied	Partially satisfied	Partially dissatisfied	Not satisfied	I'm having trouble answer
36. Objectivity and fairness of teachers	54 people (76.1%)	16 people (22.5%)	1 person (1.4%)	0 people (0%)	0 people (0%)
37. Informing students about courses, educational programs and the academic degree they receive	59 people (83.1%)	10 people (14.1%)	0 people (0%)	0 people (0%)	2 people (2.8%)
38. Providing students with dormitory accommodation	55 people (77.5%)	9 people (12.7%)	2 people (2.8%)	0 people (0%)	5 people (7%)

39. Rate how much you agree:

Statement	Full agreement	Agree	I partially agree	I disagree	Total disagreement	Didn't answer
1. The course program was clearly presented	54 people (76.1%)	16 people (22.5%)	1 person (1.4%)	0 people (0%)	0 people (0%)	-
2. The course content is well structured	57 people (80.3%)	12 people (16.9%)	2 people (2.8%)	0 people (0%)	0 people (0%)	-
3. Key terms are explained well enough	56 people (78.9%)	15 people (21.1%)	0 people (0%)	0 people (0%)	0 people (0%)	-
4. The material offered by the teacher is relevant and reflects the latest achievements of science and practice	53 people (74.6%)	18 people (25.4%)	0 people (0%)	0 people (0%)	0 people (0%)	-
5. The teacher uses effective teaching methods	54 people (76.1%)	16 people (22.5%)	1 person (1.4%)	0 people (0%)	0 people (0%)	-
6. The teacher is proficient in the material being taught	54 people (76.1%)	17 people (23.9%)	0 people (0%)	0 people (0%)	0 people (0%)	-
7. The teacher's presentation is clear	54 people (76.1%)	17 people (23.9%)	0 people (0%)	0 people (0%)	0 people (0%)	-
8. The teacher presents the material in an interesting form.	52 people (73.2%)	17 people (23.9%)	2 people (2.8%)	0 people (0%)	0 people (0%)	-
9. Objectivity in assessing knowledge, skills and other academic achievements	57 people (80.3%)	13 people (18.3%)	1 person (1.4%)	0 people (0%)	0 people (0%)	-
10. Timeliness of assessment of students' academic achievements	57 people (80.3%)	13 people (18.3%)	1 person (1.4%)	0 people (0%)	0 people (0%)	-
11. The teacher meets my needs for personal development and professional formation	55 people (77.5%)	11 people (15.5%)	4 people (5.6%)	1 person (1.4%)	0 people (0%)	-
12. The teacher stimulates students' activity	53 people (74.6%)	16 people (22.5%)	2 people (2.8%)	0 people (0%)	0 people (0%)	-
13. The teacher stimulates students' creative thinking	52 people (73.2%)	16 people (22.5%)	3 people (4.2%)	0 people (0%)	0 people (0%)	-
14. The teacher's appearance and manners are adequate	58 people (81.7%)	11 people (15.5%)	2 people (2.8%)	0 people (0%)	0 people (0%)	-
15. The teacher shows a positive attitude towards students	56 people (78.9%)	13 people (18.3%)	2 people (2.8%)	0 people (0%)	0 people (0%)	-
16. The system of assessment of academic achievements (seminars, tests, questionnaires, etc.) reflects the content of the course	54 people (76.1%)	14 people (19.7%)	3 people (4.2%)	0 people (0%)	0 people (0%)	-
17. The assessment criteria used by the teacher are clear	52 people (73.2%)	18 people (25.4%)	1 person (1.4%)	0 people (0%)	0 people (0%)	-
18. The teacher objectively evaluates the students' achievements	56 people (78.9%)	14 people (19.7%)	1 person (1.4%)	0 people (0%)	0 people (0%)	-
19. The teacher speaks professional language	57 people (80.3%)	12 people (16.9%)	2 people (2.8%)	0 people (0%)	0 people (0%)	-

20. The organization of education provides sufficient opportunities for sports and other leisure activities	48 people (67.6%)	18 people (25.4%)	2 people (2.8%)	2 people (2.8%)	1 person (1.4%)	-
21. Facilities and equipment for students are safe, comfortable and modern.	52 people (73.2%)	15 people (21.1%)	4 people (5.6%)	0 people (0%)	0 people (0%)	-
22. The library is well equipped and has a fairly good collection of books.	54 people (76.1%)	15 people (21.1%)	2 people (2.8%)	0 people (0%)	0 people (0%)	-
23. Equal opportunities are provided to all students	55 people (77.5%)	16 people (22.5%)	0 people (0%)	0 people (0%)	0 people (0%)	-

40. Other issues regarding the quality of teaching (other problems):

No. There are no other problems. I'm full

No problem. No.

No other problems

Not everyone liked

I like everything, so I think there is no problem.

There are no other problems.

No other problems

There is not

Everything is great, but teachers need to be more active and be able to interest students.

I haven't encountered it.

No problem, I am satisfied. No

We are all fine, I am satisfied with all the teachers, the dean's office.

Everything is at a high level

